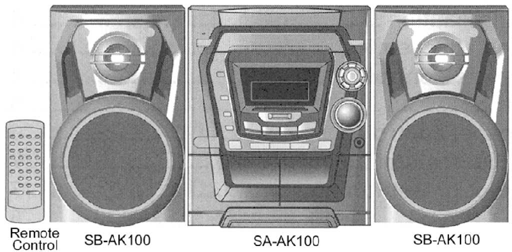
ORDER NO. MD0201002C1
A6

CD Stereo System

COMPACT
disc
DIGITAL AUDIO

SA-AK100P / SA-AK100PC

Colour
(K)... Black Type
TAPE SECTION :
SG-2W MECHANISM SERIES
CD SECTION :
RAE0152Z-3 TRAVERSE DECK SERIES



SPECIFICATIONS

Specifications

■ AMPLIFIER SECTION

Power output	
10% Total harmonic distortion	
	60 Hz - 16 kHz, both channels driven
	40 W per channel (6 Ω)
Power output	
10% Total harmonic distortion	
1 kHz, both channels driven	
	50 W per channel (6 Ω)
Input sensitivity	
AUX	250 mV
Input Impedance	
AUX	13.3 kΩ

■ FM TUNER SECTION

Frequency range	87.9 - 107.9 MHz (200 kHz steps)
	87.5 - 108.0 MHz (100 kHz steps)
Sensitivity	2.5 μV (IHF)
S/N 26 dB	2.2 μV
Antenna terminal(s)	75 Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	520 - 1710 kHz (10 kHz steps)
Sensitivity	
S/N 20 dB (at 1000 kHz)	560 μV/m

■ CASSETTE DECK SECTION

Track system	4 track, 2 channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz
Erasing system	AC erase 100 kHz
Tape speed	4.8 cm/s
Frequency response (+3 dB, -6 dB at DECK OUT)	
NORMAL (TYPE I)	35 Hz - 14 kHz
S/N	50 dB (A weighted)

Wow and flutter	0.18 % (WRMS)
Fast forward and rewind time	Approx. 120 seconds with C-60 cassette tape

■ CD SECTION

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source/wave length	Semiconductor laser/780 nm
Number of channels	Stereo
Frequency response	20 Hz - 20 kHz (+1, -2 dB)
Wow and flutter	Below measurable limit
Digital filter	8 fs
D/A converter	MASH (1 bit DAC)

■ GENERAL

Power supply	AC 120 V, 60Hz
Power consumption	120 W
Power consumption in standby mode	0.49 W
Dimensions (W x H x D)	250 x 315 x 345 mm (9 27/32” x 12 13/32” x 13 19/32”)
Mass	6.4 kg (14.1 lb)

■ SYSTEM

SC-AK100(P)	Music Center: SA-AK100(P) Speaker: SB-AK100(P)
SC-AK100(PC)	Music Center: SA-AK100(PC) Speaker: SB-AK100(P)

Notes:

1. Specifications are subject to change without notice. Mass and dimensions are aproximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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1. Safety Precaution

(This “Safety Precaution” is applied only in U.S.A.)

1. **Before servicing, unplug the power cord to prevent an electric shock.**
2. **When replacing parts, use only manufacturer’s recommended components for safety.**
3. **Check the condition of the power cord. Replace if wear or damage is evident.**
4. **After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.**
5. **Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.**

1.1. Insulation Resistance Test

1. **Unplug the power cord and short the two prongs of the plug with a jumper wire.**
2. **Turn on the power switch.**
3. **Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as**

screwheads, antenna, control shafts, handle brackets, etc. / Equipment with antenna terminals should read between 2.7M Ω and 3.9M Ω to all exposed parts*. (Fig.1) / Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig.2) / *Note : Some exposed parts may be isolated from the chassis by design. These will read infinity.

4. **If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.**

Fig.1

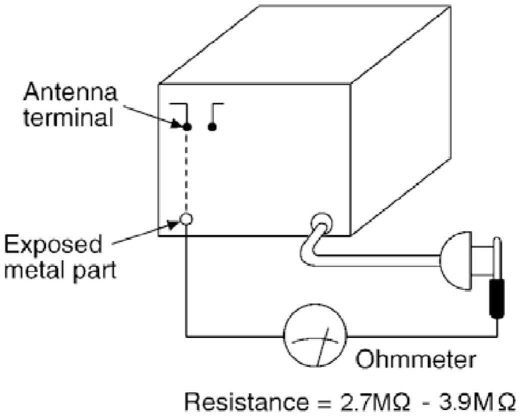
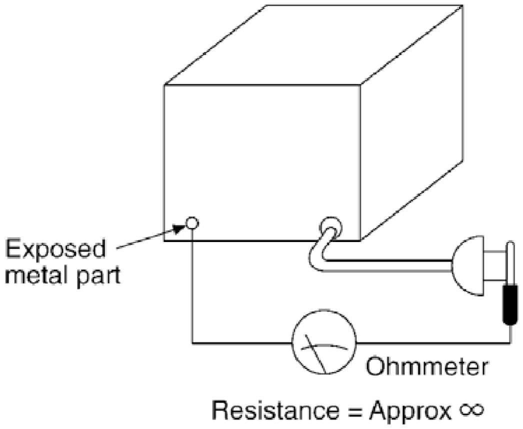

Antenna terminal
Exposed metal part
Ohmmeter
Resistance = 2.7MΩ - 3.9MΩ

Fig.2


Exposed metal part
Ohmmeter
Resistance = Approx ∞

2. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C528, C529 and C960 through a 10 Ω , 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 120V, 60 Hz in NO SIGNAL mode should be ~600mA.

3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.

- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are
“shorted”, or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

1. Turn off the power.

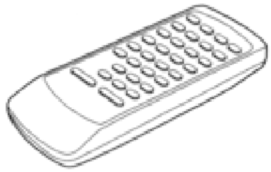
2. Determine the cause of the problem and correct it.

3. Turn on the power once again after one minute.

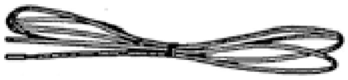
Note :
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

4. Accessories

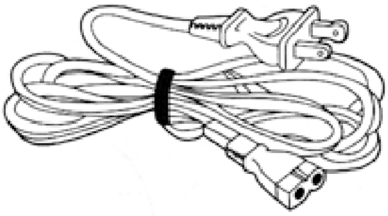
Remote Control Transmitter



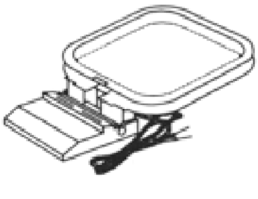
FM indoor antenna



AC mains lead



AM Loop antenna



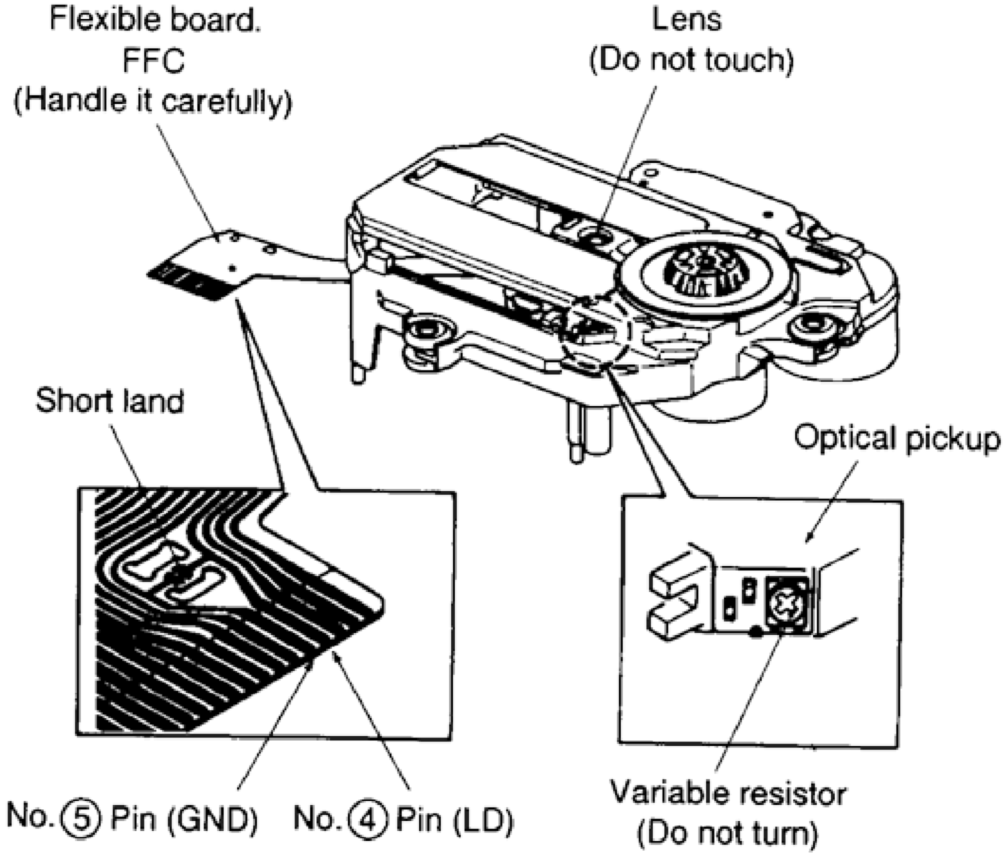
5. Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference

caused by static electricity of clothes or human body.
So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

- Handling of traverse deck (optical pickup)

1. **Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.**
2. **The short land between the No.4(LD) and No.5(GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent damage to the laser diode.To connect to the PC board, be sure to open by removing the solder build-up, and finishthe work quickly.**
3. **Take care not to apply excessive stress to the flexible board (FFC).**
4. **Do not turn the variable resistor (laser power adjustment). It has already been adjusted.**


Flexible board.
FFC
(Handle it carefully)
Lens
(Do not touch)
Short land
Optical pickup
No.⑤ Pin (GND)
No.④ Pin (LD)
Variable resistor
(Do not turn)

- Grounding for electrostatic breakdown prevention

1. **Human body grounding**
   Use the anti-static wrist strap to discharge the static electricity from your body.

2. Work table grounding

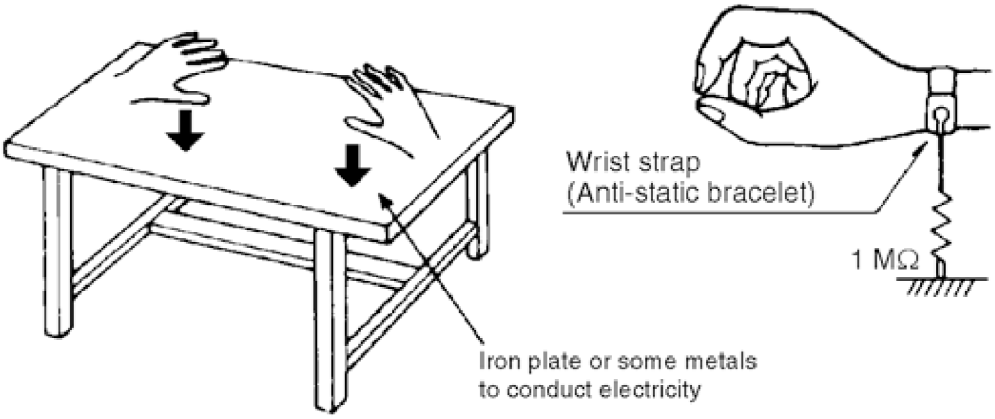
Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when Replacing the Traverse Deck :

The traverse deck has a short point shorted with solder to protect the laer diode against electroststics breakdown. Be sure to remove the solder from the short point before making connections.



6. Precaution of Laser Diode

CAUTION:

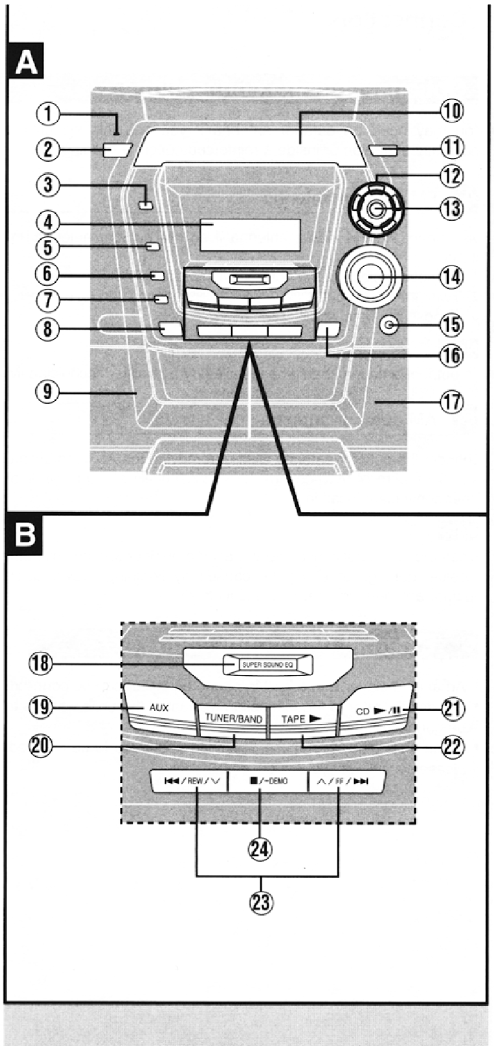
This unit utilizes a class 1 laser.
Invisible laser radiation is emitted from the optical pickup lens.
When the unit is turned on:

1. Do not look directly into the pick up lens.
2. Do not use optical instruments to look at the pick up lens.
3. Do not adjust the preset variable resistor on the pickup lens.
4. Do not disassemble the optical pick up unit.
5. If the optical pick up is replaced, use the manufacturer’s specified replacement pick up only.
6. Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN TH
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

7. Operation Procedures



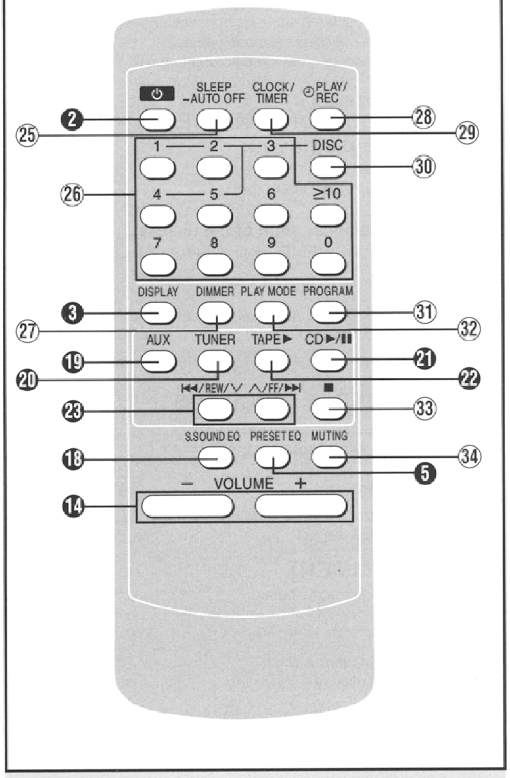
Front panel controls

A Main unit

No.	Name
①	**AC supply indicator (AC IN)** This indicator lights when the unit is connected to the AC power supply.
②	**Standby/on switch (⏻/I, POWER)** Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
③	**Display button (DISPLAY)**
④	**Display**
⑤	**Preset EQ select button (PRESET EQ)**
⑥	**Record button (● REC)**
⑦	**Deck select button (DECK 1/2)**
⑧	**Deck 1 open button (⏏ DECK 1 OPEN)**
⑨	**Deck 1 cassette holder**
⑩	**Disc tray**
⑪	**Remote control signal sensor (SENSOR)**
⑫	**Disc direct play buttons (1 ~ 5)**
⑬	**CD open/close button (⏏)**
⑭	**Volume control (VOL DOWN, UP)**
⑮	**Headphone jack (PHONES)**
⑯	**Deck 2 open button (⏏ DECK 2 OPEN)**
⑰	**Deck 2 cassette holder**

B Center console

No.	Name
⑱	**Super sound EQ button (SUPER SOUND EQ)**
⑲	**AUX button (AUX)**
⑳	**Tuner/band select button (TUNER/BAND)**
㉑	**CD play/pause button (CD ►/II)**
㉒	**Tape play button (TAPE ►)**
㉓	**CD skip/search, tape fast-forward/rewind, tune/preset channel select, time adjust buttons (⏮/REW/∨, ∧/FF/⏭)**
㉔	**Stop/program clear and demonstration button (■/–DEMO)**


⏻
SLEEP –AUTO OFF
CLOCK/ TIMER
PLAY/ REC
1
2
3
DISC
4
5
6
≥10
7
8
9
0
DISPLAY
DIMMER
PLAY MODE
PROGRAM
AUX
TUNER
TAPE ▶
CD ▶/❚❚
I◀◀/REW/∨
∧/FF/▶▶I
■
S.SOUND EQ
PRESET EQ
MUTING
– VOLUME +
❷
㉕
㉖
❸
㉗
⓳
⓴
㉓
⓲
⓮
㉘
㉙
㉚
㉛
㉜
㉑
㉒
㉝
㉞
❺

Front panel controls

Remote control

Buttons such as ❷ functions in exactly the same way as the buttons on the main unit.

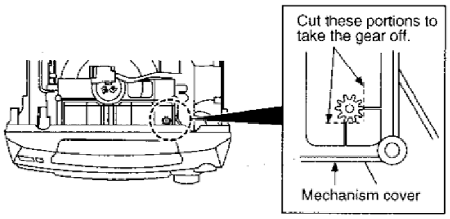
No.	Name
❷	Standby/on button (⏻)
㉕	Sleep timer/auto off button (SLEEP, –AUTO OFF)
㉖	Numeric buttons (≥10, 1–9, 0)
❸	Display button (DISPLAY)
㉗	Dimmer button (DIMMER)
⓳	AUX button (AUX)
⓴	Tuner/band select button (TUNER)
㉓	CD skip/search, tape fast-forward/rewind, tune/preset channel select, time adjust buttons (I◀◀/REW/∨, ∧/FF/▶▶I)
⓲	Super sound EQ button (S.SOUND EQ)
⓮	Volume buttons (– VOLUME +)
㉘	Play timer/record timer button (◷PLAY/REC)
㉙	Clock/timer button (CLOCK/TIMER)
㉚	Disc button (DISC)
㉛	Program button (PROGRAM)
㉜	Play mode select button (PLAY MODE)
㉑	CD play/pause button (CD ▶/❚❚)
㉒	Tape play button (TAPE ▶)
㉝	Stop/program clear button (■)
㉞	Muting button (MUTING)
❺	Preset EQ select button (PRESET EQ)

8. Disassembly and Main Component Replacement Procedures

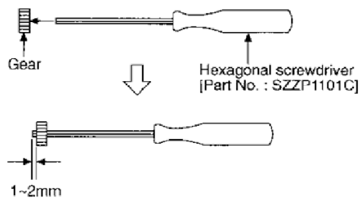
Gear for servicing (jig) information

1. This unit has a gear which is used for checking items (Open/close of disc tray, up/down operation of traverse unit by manually) when servicing.
2. For preparation of gear (for servicing), Perform the procedures as follows.
3. In case of re-servicing the same set, the "gear for servicing" may has been taken off because it has been used. The "gear for servicing" must be stored.

1. Remove the gear provided with mechanism cover as shown below.


Cut these portions to take the gear off.
Mechanism cover

2. Insert the hexagonal screwdriver (2mm) into the gear, and then project the tip of screwdriver for 1~2mm in length.


Gear
Hexagonal screwdriver [Part No. : SZZP1101C]
1~2mm

“ATTENTION SERVICER”

Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of

the major printed circuit boards and replacing the main components.

2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

Contents

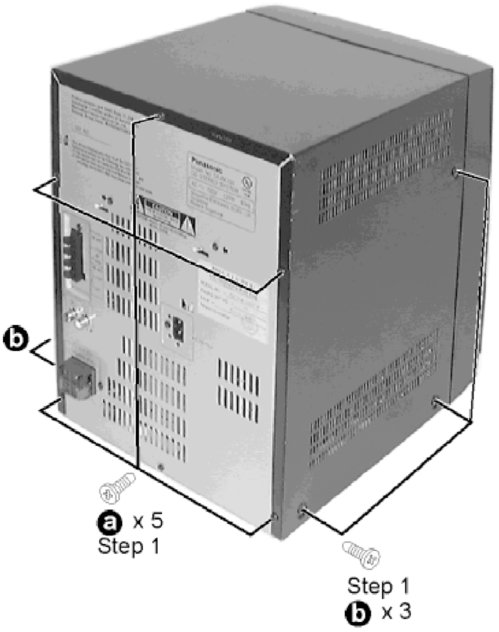
- **Disassembly Procedure for each major P.C.B.**
  1. **Checking of the Main, Panel, Transformer, Deck P.C.B.**
  2. **Checking of Power P.C.B.**
- **Main Component Replacement Procedures**
  1. **Replacement of the Traverse Deck.**
  2. **Replacement of the Power Amplifier IC.**
- **Disassembly and assembly of the Traverse Unit**
- **Disassembly and assembly of the Disc Tray**

Warning:
This product uses a laser diode. Refer to caution statement “Precaution of Laser Diode.

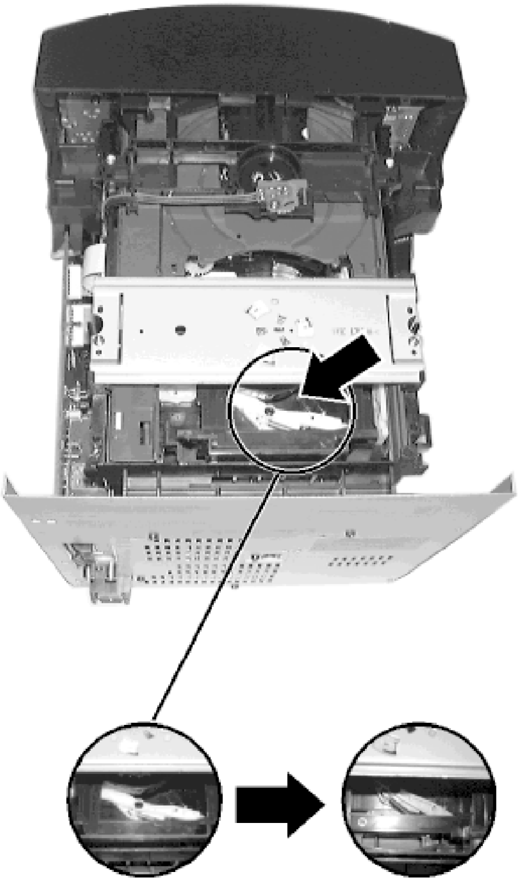
8.1. Disassembly Procedure for each major P.C.B.

8.1.1. Checking of the Main, Panel, Transformer and Deck P.C.B.

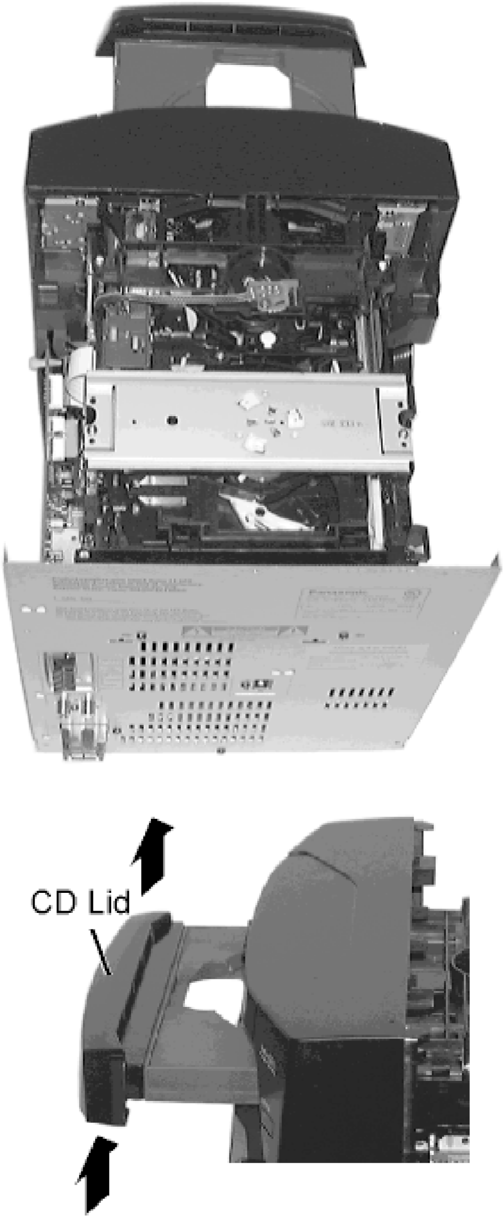
Step 1 Remove 3 screws each side and 5 screws at rear panel.


b
a x 5
Step 1
Step 1
b x 3

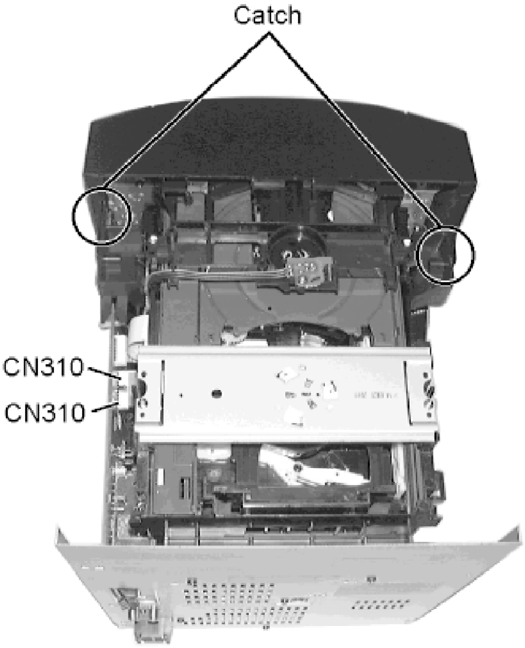
Step 2 Remove the Top Cabinet.



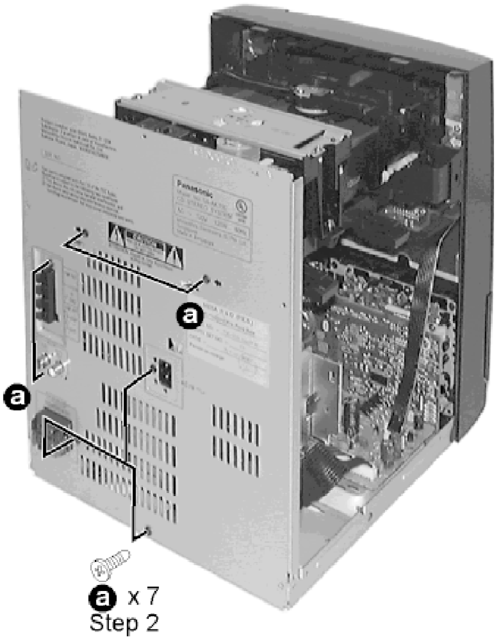
Step 3 Push the lever in the direction of the arrow.



Step 4 Pull out the CD tray as shown and remove the CD lid. Push back the CD tray after the CD lid has been removed.

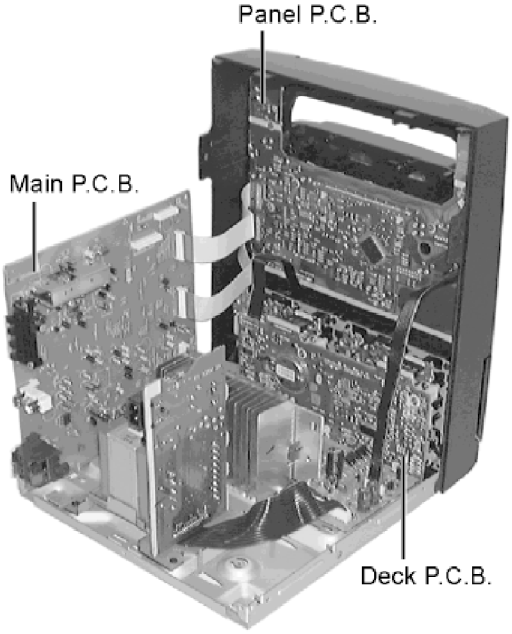

Catch
CN310
CN310

Step 5 Release the 2 catches, disconnect CN310 and remove the CD changer base together with the CD changer.


a
a
a x 7
Step 2

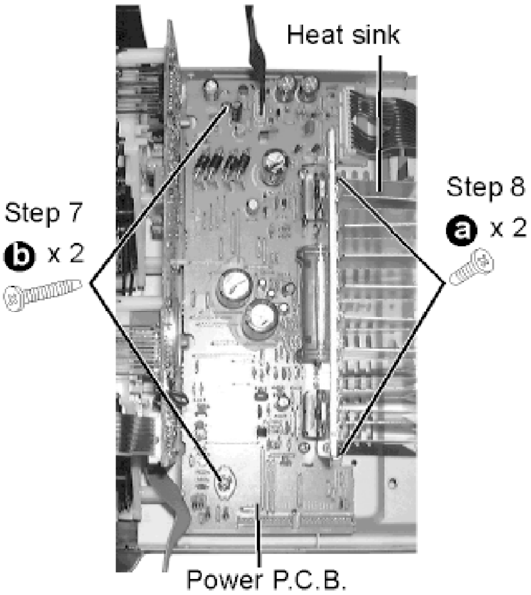
Step 6 Remove 8 screws.

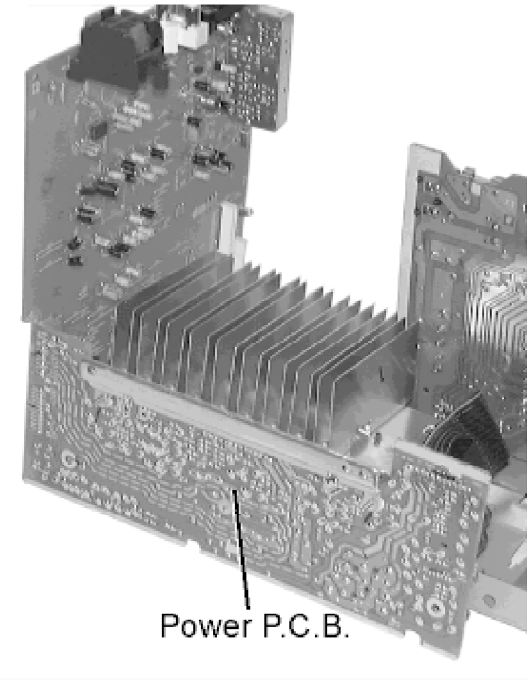
- Checking for Main, Panel , Transformer and Deck P.C.B


Panel P.C.B.
Main P.C.B.
Deck P.C.B.

- Checking for Power P.C.B.

Step 7 and 8 Remove 2 screws each side.


Heat sink
Step 7
b x 2
Step 8
a x 2
Power P.C.B.

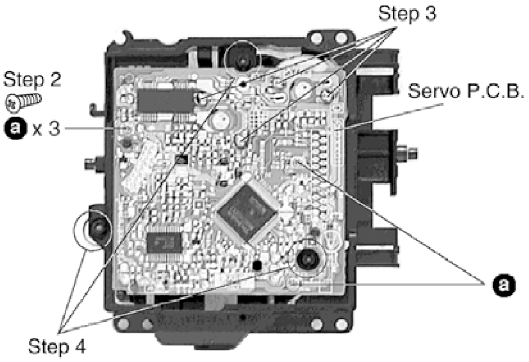


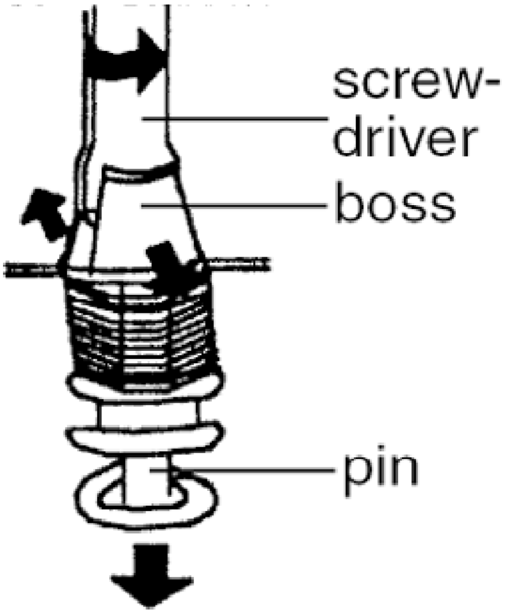
8.2. Main Component Replacement Procedures

8.2.1. Replacement of the Traverse Deck

Step 1 Follow the procedures in ‘Disassembly of the Traverse Unit’ (Step 1 - Step 4).

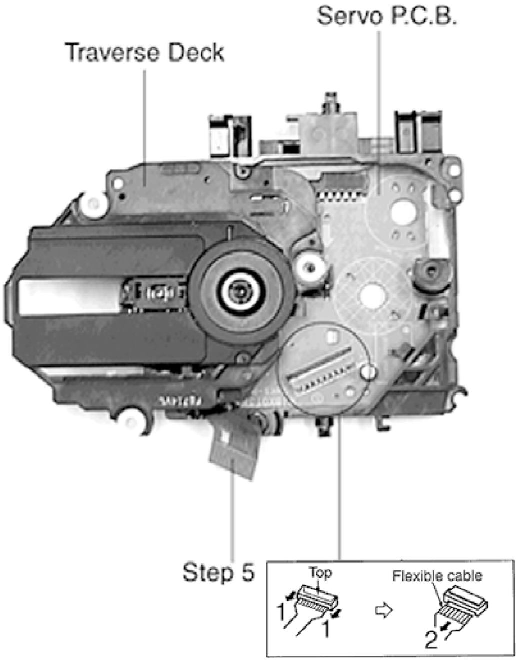
Step 2 Remove 3 screws.

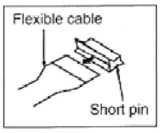

Step 3
Step 2
ⓐ x 3
Servo P.C.B.
ⓐ
Step 4


screw-
driver
boss
pin

Step 3 Desolder the 4 legs of the 2 motors and pull out the Servo P.C.B.

Step 4 Widen the 3 bosses with a flat screwdriver and pull out the 3 pins. Then remove the Traverse Deck.


Servo P.C.B.
Traverse Deck
Step 5
Top
Flexible cable
1
1
2


Flexible cable
Short pin

Step 5 Remove the flexible cable CN701.

- **Removal of the flexible cable. Push the top of the connector in the direction of the arrow 1, and then pull out the flexible cable in the direction of the arrow 2.**

Note:

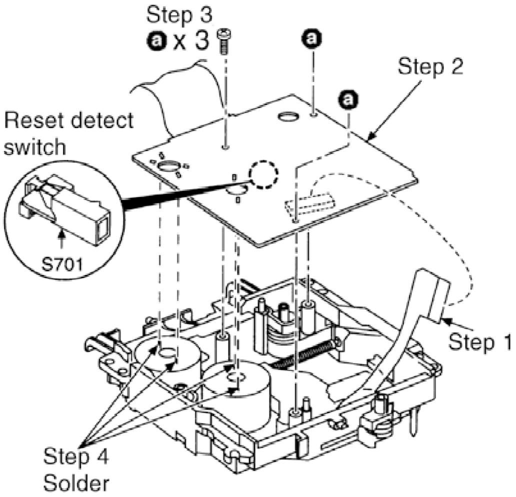
Insert a short pin into the flexible cable for traverse unit.

- Installation of the CD servo P.C.B. after replacement

Step 1 Connect the FFC board.

Step 2 Install the CD servo P.C.B. in the traverse deck assembly.

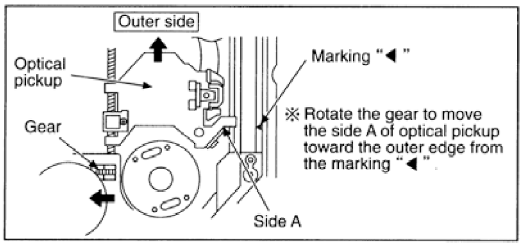
Step 3 Remove 3 screws.


Step 3
ⓐ x 3
ⓐ
ⓐ
Step 2
Reset detect switch
S701
Step 1
Step 4
Solder

Note:

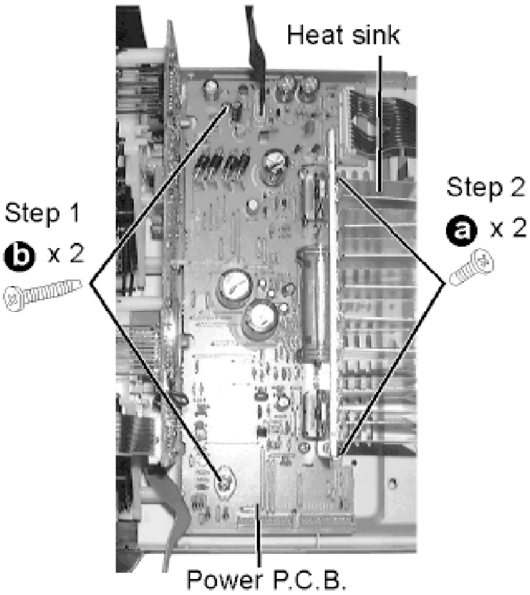
Before installing the CD servo P.C.B., move the optical pickup towards the outer edge from the marking (black triangle).

[Otherwise, the reset detect switch (S701) mounted on the CD servo P.C.B. may be damaged.]

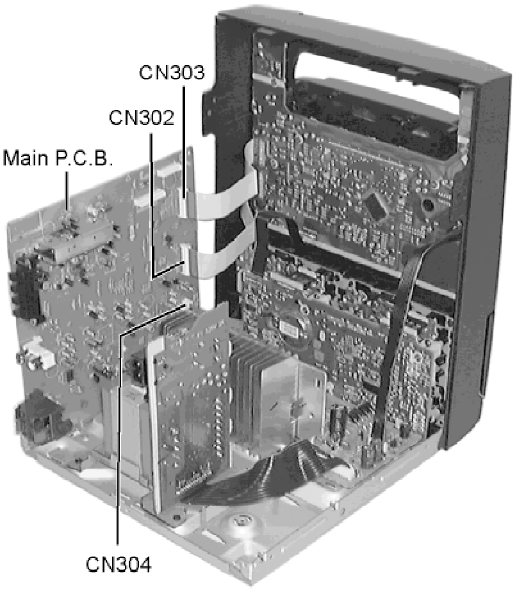

Outer side
Optical pickup
Gear
Marking "◀ "
※ Rotate the gear to move the side A of optical pickup toward the outer edge from the marking "◀ ".
Side A

8.2.2. Replacement of the Power Amplifier IC

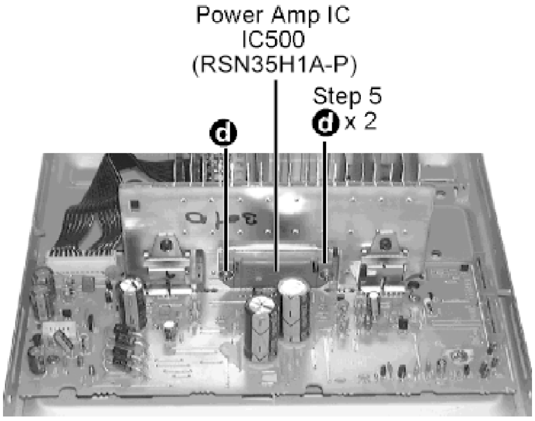
Step 1 Follow the procedures in ‘Checking Procedure for each major P.C.B.’ (Step 1 - Step 4).


Heat sink
Step 1
b x 2
Step 2
a x 2
Power P.C.B.

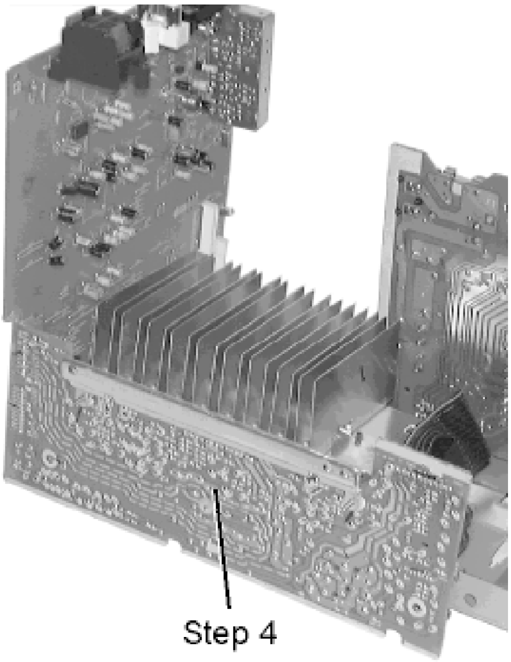
Step 2 Remove the wires at CN302, CN303 and CN304 and pull out the Main PCB.


CN303
CN302
Main P.C.B.
CN304

Step 3 Remove the 2 screws fixed to the Power Amplifier IC.


Power Amp IC
IC500
(RSN35H1A-P)
Step 5
d x 2
d

Step 4 Unsolder the terminals of Power Amp IC and replace the respective component.

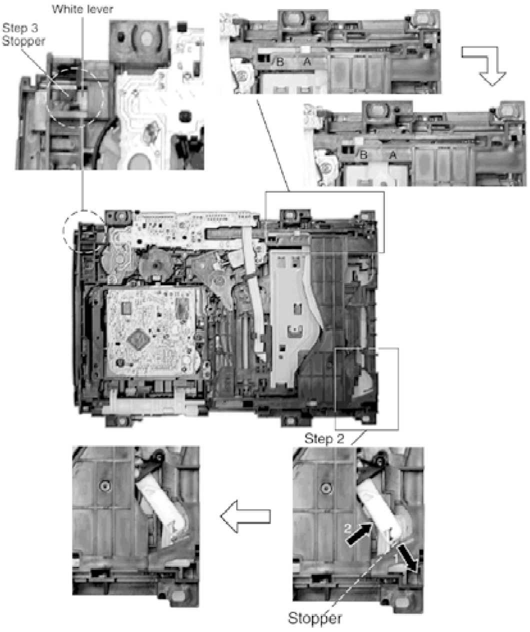


8.3. Disassembly and assembly of the Traverse Unit

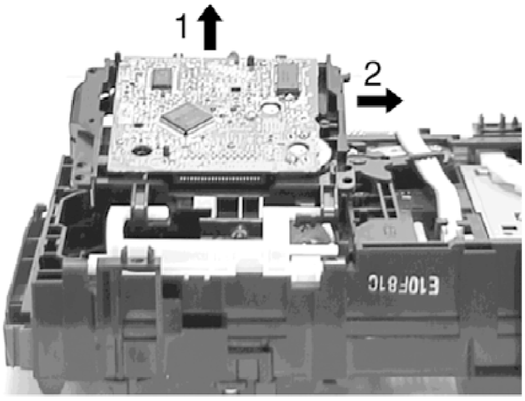
Step 1 Push the lever from position A to B.

Step 2 Pull the stopper (black) in the direction of arrow 1 and push the lever in the direction of arrow 2.

Step 3 Push the stopper (black) down until the white lever eject out.


White lever
Step 3
Stopper
B
A
B
A
Step 2
2
Stopper

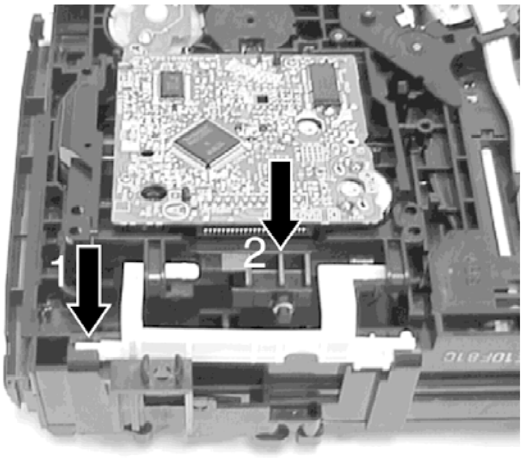
Step 4 Lift up the traverse unit and slide out the unit as shown.



- Replacement of Traverse Unit

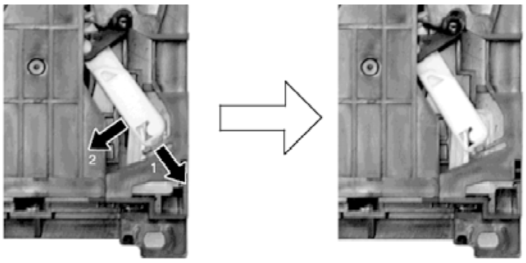
Step 1 Place the traverse unit as shown.

Step 2 Press in the lever shaft in the direction of arrow 1 as shown and push the traverse unit into the position in the direction of arrow 2.

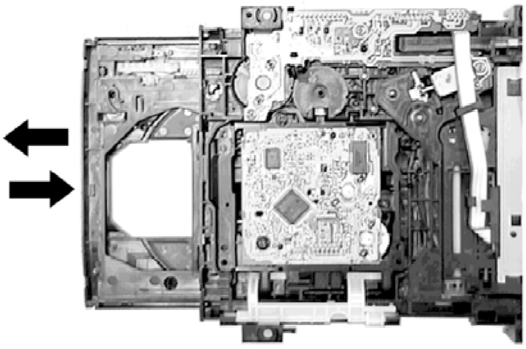


Step 3 Pull the stopper in the direction of arrow 1 and release the lever in the direction of arrow

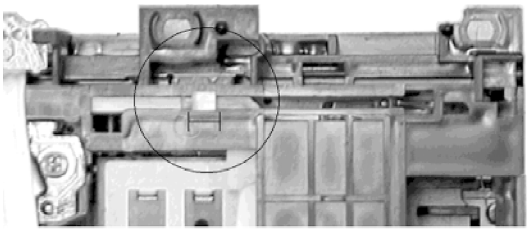
2 as shown.



Step 4 Pull out the tray half way and push it back fully.

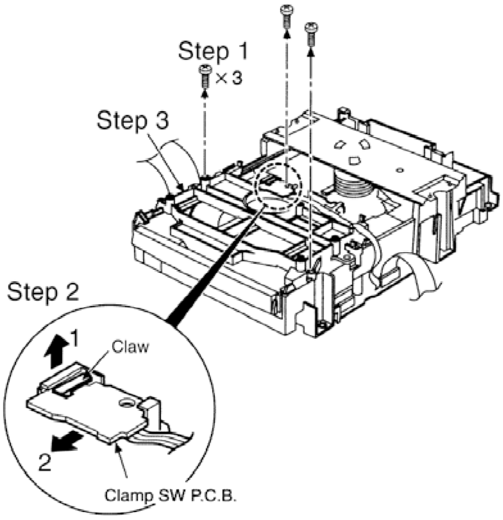


Step 5 Push the lever to the initial position indicated '|---|'.



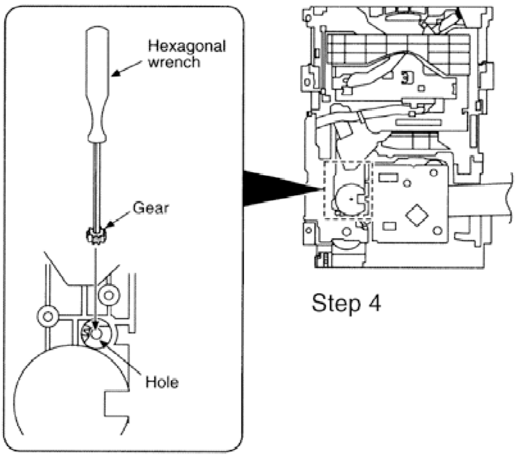
8.4. Disassembly and assembly of the Disc Tray

Step 1 Remove 3 screws.

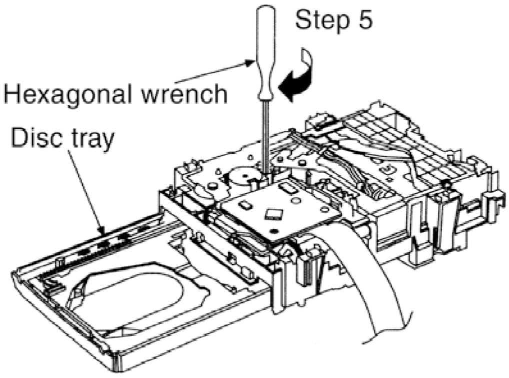

Step 1
×3
Step 3
Step 2
1
Claw
2
Clamp SW P.C.B.

Step 2 With lifting the claw in the direction of arrow 1, draw the clamp SW P.C.B. in the direction of arrow 2.

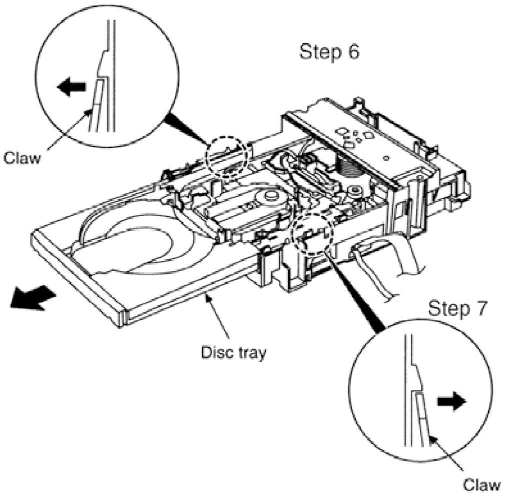
Step 3 Remove the mechanism cover.


Hexagonal wrench
Gear
Hole
Step 4

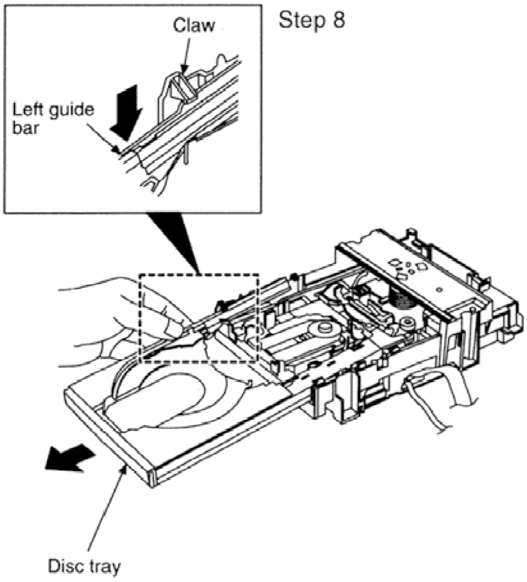
Step 4 Insert the gear with hexagonal wrench into the hole.


Step 5
Hexagonal wrench
Disc tray

Step 5 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.

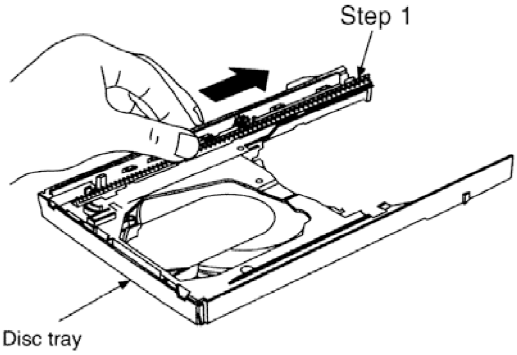

Step 6
Claw
Step 7
Disc tray
Claw

Step 6 Upset the CD changer unit again.
Step 7 Release both the claws, and then draw the disc tray.

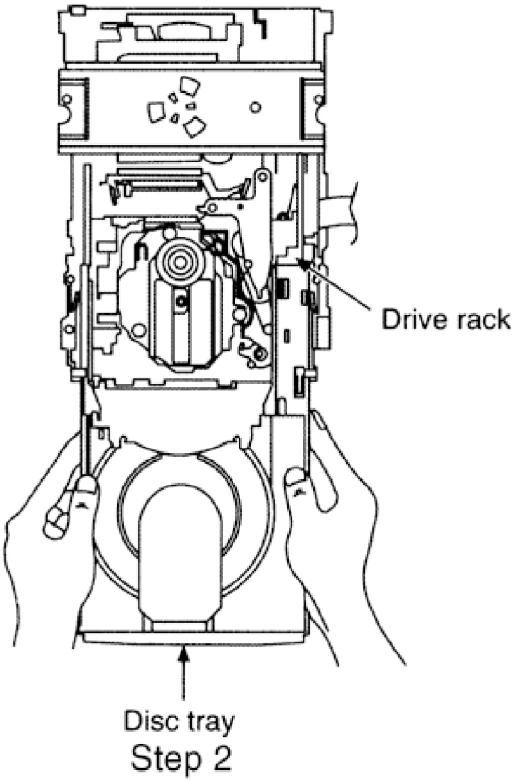

Claw
Step 8
Left guide bar
Disc tray

Step 8 With forcing the left guide bar manually because the left guide bar interferes with claw, draw the disc tray.

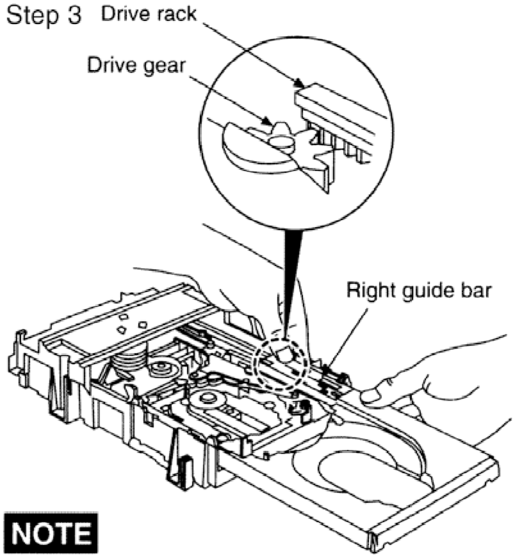
- Installation of the disc tray after replacement


Step 1
Disc tray

Step 1 Slide the drive rack fully in the direction of the arrow.


Drive rack
Disc tray
Step 2

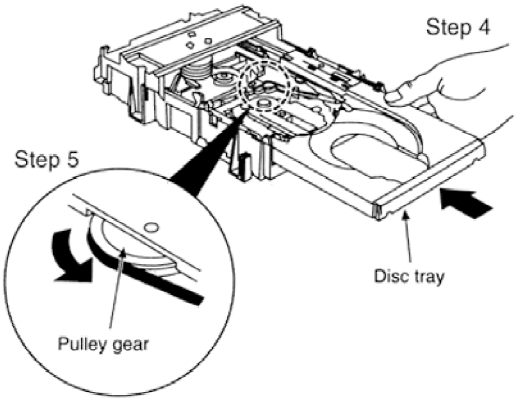
Step 2 Holding the drive rack, not to move, install the disc tray.


Step 3
Drive rack
Drive gear
Right guide bar

NOTE

Force the right guide bar of tray base manually not to move upwards.

Step 3 Align the drive rack with the drive gear.



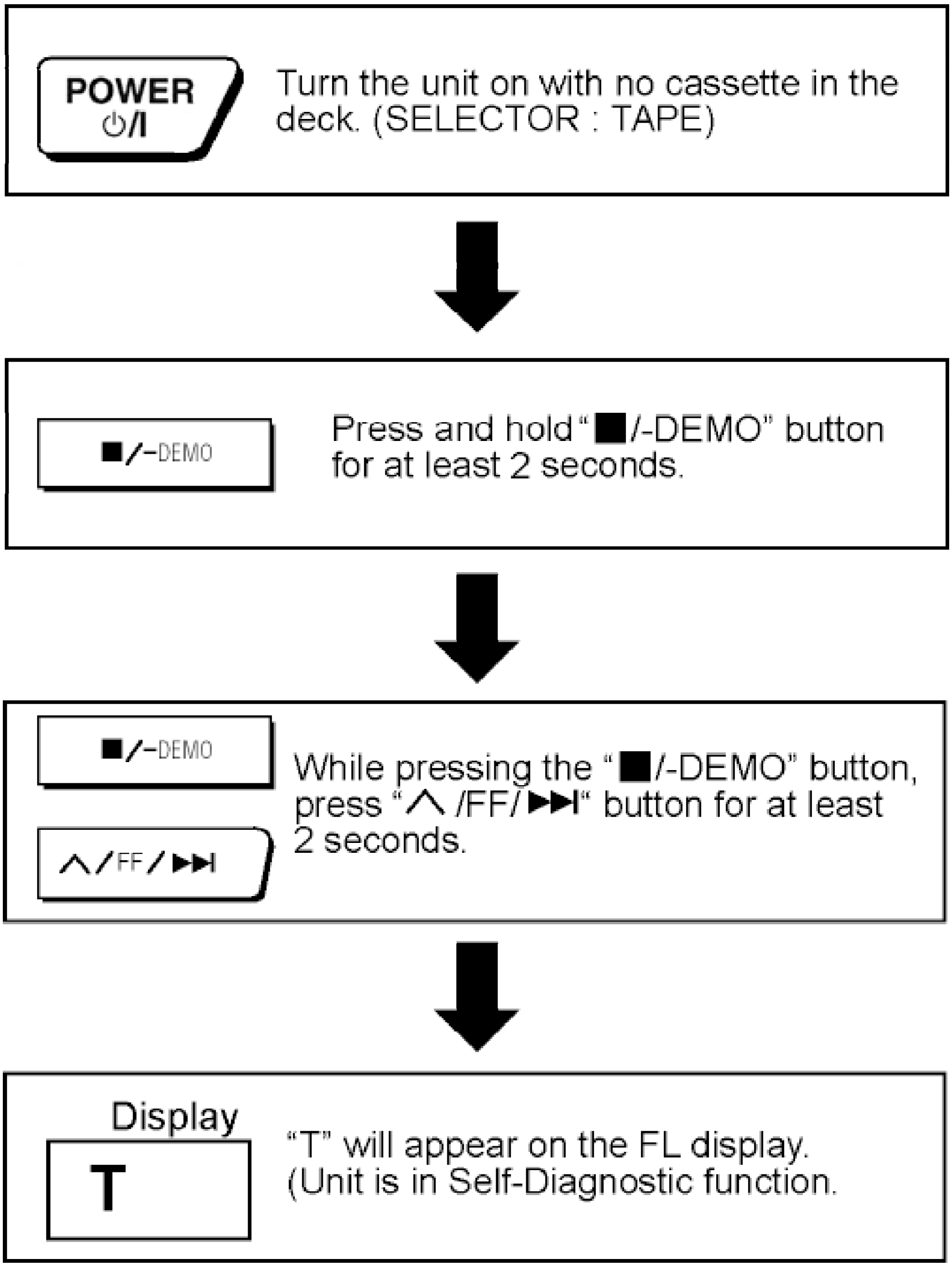
Step 4 Holding the disc tray manually, rotate the pulley gear in the direction of arrow.
Step 5 Rotate the gear 5 or 6 times manually, and then push the disc tray.

9. Self-Diagnostic Function

9.1. Self-diagnostic display

This unit is equipped with a self-diagnostic display function which, if a problem occurs, will display an error code corresponding to the problem.
Use this function when performing maintenance on the unit.

9.2. How to enter the Self-Diagnostic Function



Turn the unit on with no cassette in the deck. (SELECTOR : TAPE)

Press and hold "■/-DEMO" button for at least 2 seconds.

While pressing the "■/-DEMO" button, press "∧ /FF/▶▶I" button for at least 2 seconds.

"T" will appear on the FL display. (Unit is in Self-Diagnostic function.

9.3. Cassette Mechanism Test (For error code H01, H02, H03, F01, F02)

1. Press "TAPE, DECK 1/2" to select Deck 2.

2. Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.

3. Press "FAST FORWARD MEMORY" (Tape will be stop after 2 seconds)

4. Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.
5. Press “REVERSE FM MODE/BP” (Tape will be stop after 2 seconds)
6. Load a pre-recorded tape with both side record tabs intact and close the cassette holder.
7. Press “PLAY/TUNE/TIME ADJ UP” (After TPS function, tape will stop automatically)
8. Press “REC/STOP” (Tape will not move)
9. Press “STOP/TUNE MODE” to indicate Error code.

   - If several problem exist, error code will change each time when “ ■ /TUNE MODE” is pressed.
     (e.g. H01 → H03 → F01 .....etc.)

10. Press “TAPE, DECK 1/2” to select Deck 1.
11. Repeat step 2 to 9 to test Deck 1. (Tape Deck 1 will not check H02 because of no recording function)

9.4. CD Mechanism Test (For error code F15, F26, F16, F17, F27, F28, F29, H15)

1. Press “CD”.
2. Press “OPEN/CLOSE (1)” and place a CD.
3. Press “OPEN/CLOSE (1)” to close the tray.
4. Press “OPEN/CLOSE (5)” and wait until the tray is open.
5. Press “OPEN/CLOSE (1)” and remove the CD.
6. Press “OPEN/CLOSE (1)” to close the tray.
7. Press “ ■ /TUNE MODE” to indicate Error Code.

   - If several problem exist, error code will change each time when “ ■ /TUNE MODE” is pressed. (e.g. F15 → F26 → F16 .... etc).

9.5. To clear all Error code

1. Press “STOP/TUNE MODE” button for 5 seconds.

2. FL indicator shows “CLEAR” for 1 second and change to “T”.

9.6. How to exit from Self-Diagnostic function

1. Press “Power” button OFF.

9.7. Power Amplifier Failure (F61)

1. When power amplifier fail, F61 will indicate automatically.

10. Description of Error Code

10.1. Error detection for Cassette Mechanism block

No.	Error	Error Display	Problem condition
1	MODE SW detection error	H01	Faulty operation of cassette mechanism. Faulty contact or short-circuit of mechanism mo switch (S951, S971).
2	REC INH SW detection error	H02	Recording not possible. Faulty contact or short-circuit of REC INH switc (S974, S975).
3	HALF SW detection error	H03	Playback cannot perform. Faulty contact or short-circuit of HALF siwtch (S S972).
4	Reel Pulse detection error	F01	The tape advances slightly and then stops. Faulty reel pulse, faulty hole detect IC (IC951, IC
5	TPS abnormal	F02	Cassette deck will not perform TPS function. Faulty playback EQ/recording amplifier IC (IC101

10.2. Error detection for CD/Changer block

No.	Error	Error Display	Problem condition
1	REST SW detection error	F15	CD does not function. This error occurs when the Optical Pick Up RES (S701) is not detected within the specified time (about 8 seco
2	CD tray opens automatically	F16	CLAMP switch (S4) NG (Check & Replace)
3	Does not startup when [PLAY] button is pressed	F17	BOTTOM switch (S5) NG (Check & Replace)
4	Transmission error between CD servo LSI and micon	F26	CD does not function. This error occurs when the POWER is ON for th block and an error is detected after the transmission has started.
5	Startup fails even when you insert CD or the selected disc tray does not open	F27	Tray 1 detect switch or Tray 2 detect switch NG & Replace)
6	Cannot insert CD	F28	Tray 1 detect switch NG (Check & Replace)
7	Cannot eject CD	F29	Check if disc is stuck. Tray 2 detect switch NG (Confirm & Replace)
8	The CD tray closes	H15	CD disc tray detect switch NG (S3) (Check & Re

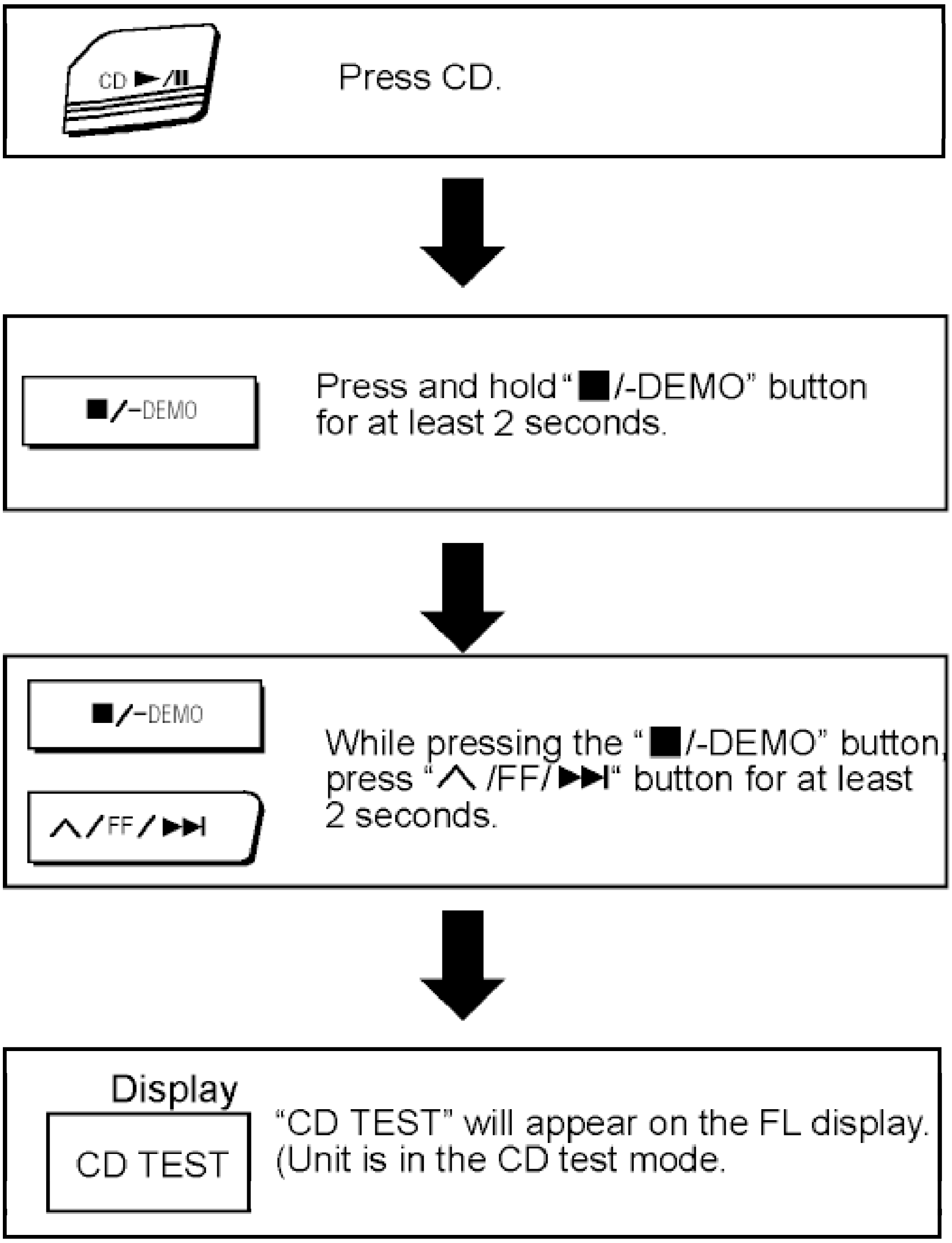
10.3. Power Supply related error detection

No.	Error	Error Display	Problem condition
1	POWER AMP output abnormal	F61	When POWER is switched on, power become of automatically. During normal operation, if DC DET become L, P shall become L and the error display on the left shall be displa (IC501)

11. CD Test Mode Function

This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

11.1. How to set CD test mode


CD ►/II
■/–DEMO
■/–DEMO
⋀/FF/►►I
Display
CD TEST

Press CD.

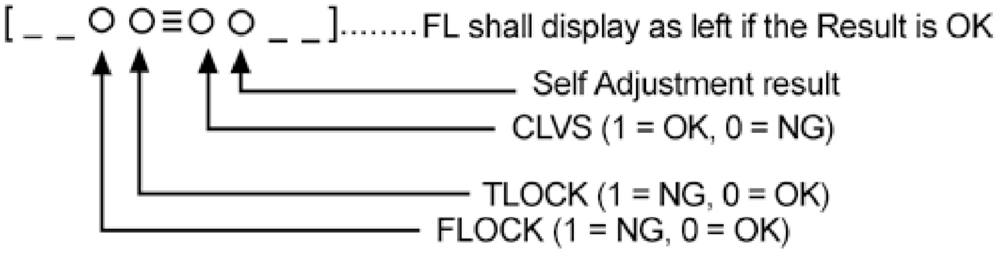
Press and hold "■/-DEMO" button for at least 2 seconds.

While pressing the "■/-DEMO" button, press "⋀ /FF/►►I" button for at least 2 seconds.

"CD TEST" will appear on the FL display. (Unit is in the CD test mode.

11.2. CD Automatically Adjustment result indication

Under CD test mode, pressing the numeric key '0' on the remote controller will display the auto adjustment result. FLOCK, TLOCK and CLVS status shall be shown as below:


[_ _ O O≡O O _ _]........FL shall display as left if the Result is OK
Self Adjustment result
CLVS (1 = OK, 0 = NG)
TLOCK (1 = NG, 0 = OK)
FLOCK (1 = NG, 0 = OK)

During the above display, executing CD PLAY will display auto adjustment result for CD PLAY

mode.

12. Measurements and Adjustments

12.1. Cassette Deck Section

- Measurement Condition

- Make sure head, capstan and press roller are clean.

- Judgeable room temperature 20 ± 5 °C (68 ± 9°F)

- Measuring instrument

- EVM (Electronic Volmeter)

- Digital quency counter

- Test Tape

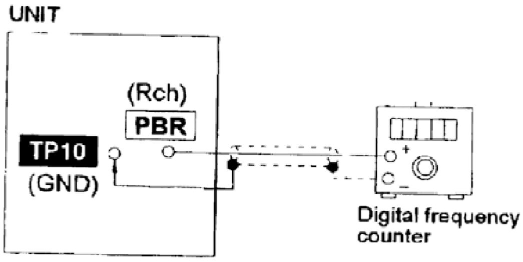
- Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT

12.1.1. Tape Speed Adjustment (Deck 1/2)

1. **Set the tape edit button to “NORMAL” position.**
2. **Insert the test tape (QZZCWAT) to DECK 2 and playback (FWD side) the middle portion of it.**
3. **Adjust Motor VR (DECK 2) for the output value shown below.**

Adjustment target: 2940 ~ 3060 Hz **(NORMAL speed)**

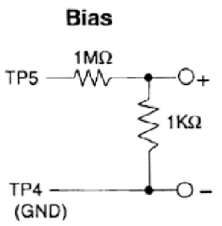
4. **After alignment, assure that the output frequency of the DECK 1 FWD are within ±60 Hz of the value of the output frequency of DECK 2 FWD.**

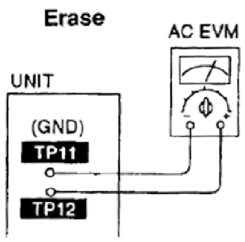


12.1.2. Bias and Erase Voltage Check

1. **Set the unit “AUX” position.**
2. **Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to “REC” mode (use “ ● REC/STOP” key).**
3. **Measure and make sure that the output is within the standard value.**

Bias voltage for Deck 2	**14 ± 4mV (Normal)**
Erase voltage for Deck 2	**more than 80mV**

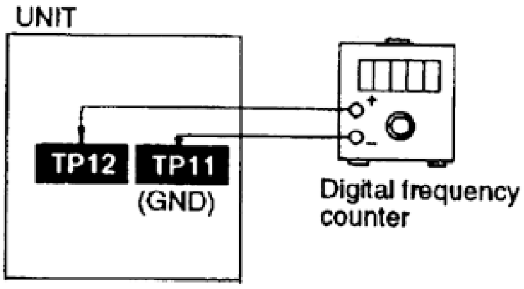

Bias
1MΩ
TP5
+
1KΩ
TP4
(GND)
-


Erase
AC EVM
UNIT
(GND)
TP11
TP12

12.1.3. Bias Frequency Adjustment (Deck 1/2)

1. **Set the unit to “AUX” position.**
2. **Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to “REC” mode (● use “REC/STOP” key).**
3. **Adjust L1002 so that the output frequency is within the standard value.**

Standard Value: 97 ±8 kHz


UNIT
TP12
TP11
(GND)
+
-
Digital frequency counter

12.2. Tuner Section

12.2.1. AM-IF Alignment

- AM-IF ALIGNMENT

SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)	ADJUSTMENT(Shown in Fig.3)	RE
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	450 kHz 30% Mod. at 400Hz.	Point of non-interference (on/ about 600 kHz)	Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z102 (AM IFT)	Adju maxi outp

- AM-RF ALIGNMENT

SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)	ADJUSTMENT(Shown in Fig.1)	RE
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	520 kHz	Tuning capacitor fully closed.	Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z101 (AM OSC Coil)	Adju maxi outp
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	600 kHz	Tuning capacitor fully open.	Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z101 (AM ANT Coil)	Adju maxi outp

12.3. Alignment Points

Cassette Deck Section

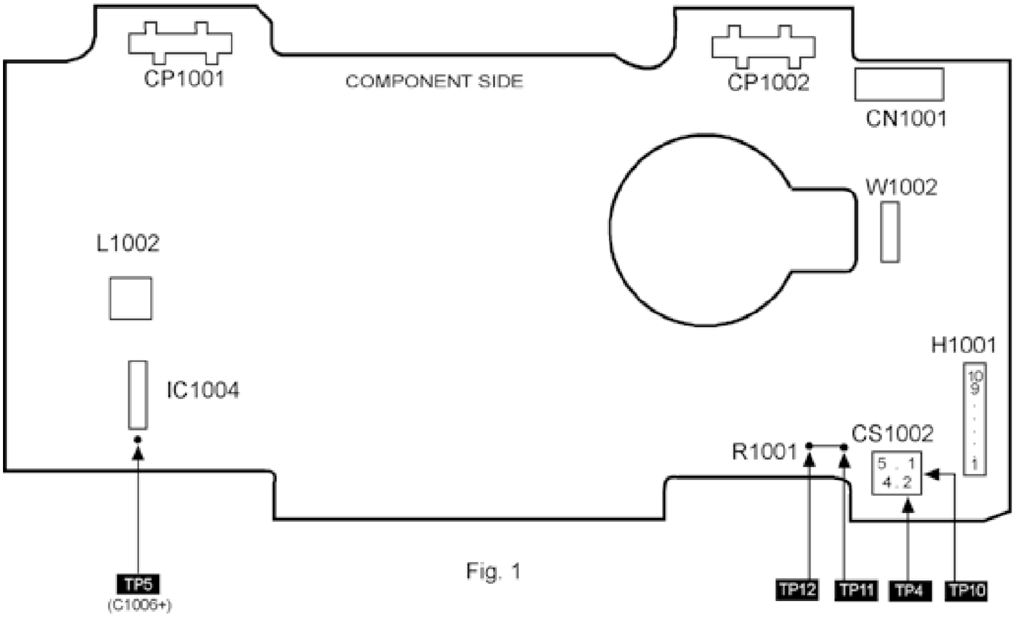

CP1001
COMPONENT SIDE
CP1002
CN1001
W1002
L1002
IC1004
H1001
10
9
1
CS1002
5 1
4 2
R1001
TP5
(C1006+)
TP12
TP11
TP4
TP10

Fig. 1

Tuner Section

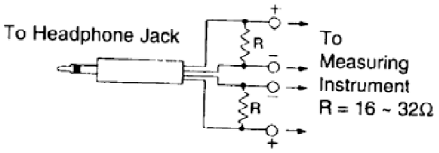

To Headphone Jack
R
R
+
−
−
+
To
Measuring
Instrument
R = 16 ~ 32Ω

Fig. 2

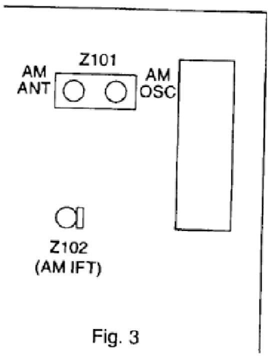

Z101
AM
ANT
AM
OSC
Z102
(AM IFT)

Fig. 3

13. Illustration of IC’s, Transistors and Diodes

14. Terminal Function of IC’s

14.1. IC701 (AN8885SBE1) Servo Amplifier

Pin No.	Mark	I/O	Function
1	PDE	I	Tracking signal input 1
2	PDF	I	Tracking signal input 2
3	VCC	I	Power supply
4	PDA	I	Focus signal input terminal 1
5	PDB	I	Focus signal input terminal 2
6	LPD	I	APC amp input
7	LD	O	APC amp output
8	RF	O	RFsumming output
9	RFIN	I	Detector’s input
10	CSBRT	I	Capacitor for OFTR connection
11	CEA	I	Capacitor for HPF amp connection
12	BDO	O	BDO output (“H” : drop out)
13	LDON	I	APC control
14	GND	—	Ground
15	/RFDET	O	NRFDET output (“L” : detection)
16	PDOWN	O	Power-down input
17	OFTR	O	OFTR output
18	NC	O	N.C.
19	ENV	O	3T-ENV output
20	NC	I	N.C.
21	NC	I	N.C.
22	TEN	I	TE amp input
23	TEOUT	O	TE amp output
24	FEOUT	O	FE amp output
25	FEN	I	FE amp input
26	VREF	O	Reference voltage output
27	TBAL	I	Tracking balance control
28	FBAL	I	Focus balance control

14.2. IC702 (MN662790RSC) Servo Processor/ Digital Signal Processor/ Digital Filter/ D/A Converter

Pin No.	Mark	I/O	Function
1	BCLK	O	N.C.
2	LRCK	O	N.C.
3	SRDATA	O	N.C.
4	DVDD1	I	Power supply input (for digital circuit)
5	DVSS1	I	GND (for digital circuit)
6	TX	O	Digital audio interface signal output (Latches data at first transition)
7	MCLK	I	Microprocessor command clock signal input
8	MDATA	I	Microprocessor command data signal input
9	MLD	I	Microprocessor command load signal input
10	SENSE	O	Sense signal output (OFT, FESL,MAGEND, NAJEND,POSAD,SFG) (Not used, open)
11	/FLOCK	O	Focus servo feeding signal output (“L” : Feed)
12	/TLOCK	O	Tracking servo feeding signal output (“L” : Feed)
13	BLKCK	O	Sub-code block clock signal output (BLKCKf = 75Hz during normal playback)
14	SQCK	I	External clock signal input for sub-code Q resistor
15	SUBQ	O	Sub-code Q code output
16	DMUTE	I	Muting input (“H” : mute)
17	STAT	O	Status signal output (CRC,CUE,CLVS, TTSTVP,FCLV,SQCK)
18	/RST	I	Reset signal input

18	/RST	I	Reset signal input

Pin No.	Mark	I/O	Function
19	SMCK	O	1/2-diveded clock signal of crystal osscillating at MSEL = “H” (fSMCK = 8.4672 MHz) 1/4-divided clock signal of crystal oscillating at MSEL = “L” (fSMCK = 4.2336MHz)
20	CSEL	I	Frequency Selection Terminal H = 33.8688 MHz ; L = 16.9344 MHz
21	TRV	O	N.C
22	TVD	O	Traverse drive output
23	PC	O	Spindle motor ON output ("L" : ON)
24	ECM	O	Spindle motor drive signal output(forced mode output)
25	ECS	O	Spindle motor drive signal output (servo error signal output)
26	KICK	O	N.C.
27	TRD	O	Tracking drive output
28	FOD	O	Focus drive output
29	VREF	I	D/A (drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference voltage input
30	FBAL	O	Focus balance adjustment output
31	TBAL	O	Tracking balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input
35	VDET	I	Vibration detection signal input ("H" : detection)
36	OFT	I	Off-track signal input ("H" : off track)

Pin No.	Mark	I/O	Function
37	TRCRS	I	Track cross signal input
38	/RFDET	I	RF detection signal input ("L" : detection)
39	BDO	I	Dropout signal input ("H" : Dropout)
40	LDON	O	Laser on signal output ("H" : ON)
41	PLLF2	I/O	N.C.
42	DSLF2	O	Tracking Offset alignment output/DSL Balance Output (DA Output)
43	WVEL	O	N.C.
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias terminal (Not used, open)
47	DSLF	I/O	DSL loop filter terminal
48	PLLF	I/O	PLL loop filter terminal
49	VCOF	I/O	VCO loop filter terminal
50	AVDD2	I	Power supply input (for analog circuit)
51	AVSS2	I	GND (for analog circuit)
52	EFM	-	EFM signal output
53	PCK	-	PLL extraction clock output (fPCK = 4.321 MHz during normal playback)
54	VCOF2	I/O	VCO Loop filter for 33.8688 MHz conversation terminal for 16.9344 MHz crystal mode, must use other circuit
55	SUBC	O	Sub-code serial data output
56	SBCK	I	Clock input for sub-code serial data
57	VSS	I	GND

Pin No.	Mark	I/O	Function
58	X1 IN	I	Crystal oscillating circuit input (f = 16.9344MHz)
59	X2 OUT	O	Crystal oscillating circuit input (f = 16.9344 MHz)
60	VDD	I	Power supply input (for oscillating circuit)
61	BYTCK	-	Byte clock output
62	/CLDCK	-	Sub-code frame clock signal output (fCLDCK = 7.35 kHz during normal playback)
63	FCLK	-	Crystal frame clock signal output (fCLK = 7.35 kHz, double = 14.7 kHz)
64	IPFLAG	-	Interpolation flag output (“H” : Interpolation)
65	FLAG	-	Flag output
66	CLVS	-	Spindle servo phase synchronizing signal output ("H" : CLV, "L" : rough servo)
67	CRC	-	Sub-code CRC checked output (“H’ : OK, “L” :NG)
68	DEMPH	-	De-emphassis ON signal output (“H” : ON)
69	RESY	-	Frame re-synchronizing signal output
70	IOSEL	I	Mode Switching Terminal
71	/TEST	I	Test input
72	AVDD1	I	Power supply input (for analog circuit)
73	OUTL	O	Left channel audio signal output
74	AVSS1	I	GND
75	OUTR	O	Right channel audio signal output

Pin No.	Mark	I/O	Function
76	RSEL	I	RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RESL= "L")
77	IOVOD	I	5V supply input
78	PSEL	I	Test terminal (connected to Gnd)
79	MSEL	I	SMCK oscillating frequency designation input (“L” :4.2336 MHz, “H”: 8.4672 MHz)
80	SSEL	I	SUBQ output mode select (“H”:Q-code buffer mode)

14.3. IC703 (AN8739SBE2) Focus Coil/ Tracking Coil/ Traverse Motor/ Spindle Motor Driver

Pin No.	Mark	I/O	Function
1	/RST	-	RESET output terminal
2	NC	-	N.C.
3	IN2	I	Motor Drive (2) input
4	PC2	I	Turntable motor drive signal (“L :ON)
5	NC	-	N.C.
6	IN1	I	Motor driver (1) input
7	NC	I	N.C.
8	PVCC1	I	Power supply (1) for driver
9	PGND1	-	Ground connection (1) for driver
10	NC	-	N.C.
11	D1-	O	Motor driver (1) reverse-action output
12	D1+	O	Motor driver (1) forward-action output
13	D2-	O	Motor driver (2) reverse-action output
14	D2+	O	Motor driver (2) forward-action output
15	D3-	O	Motor driver (3) reverse-action output
16	D3+	O	Motor driver (3) forward-action output

Pin No.	Mark	I/O	Function
17	D4-	O	Motor driver (4) reverse-action output
18	D4+	O	Motor driver (4) forward-action output
19	NC	-	N.C.
20	PGND2	-	Ground connection (2) for driver
21	PVCC2	I	Power supply (2) for driver
22	NC	-	N.C.
23	VCC	I	Power supply terminal
24	VREF	I	Reference voltage input
25	IN4	I	Motor driver (4) input
26	IN3	I	Motor driver (3) input
27	RSTIN	I	Reset terminal
28	NC	-	N.C.

14.4. IC600 (C2BBGF000313) System Microprocessor

Pin No.	Mark	I/O	Function
1	DECK2	I	Tape mecha condition input (Half2/ Reci_F/Mode/ Reci_R)
2	KEY3	I	Key 3 input
3	KEY2	I	Key 2 input
4	KEY1	I	Key 1 input
5	NC	-	NC
6	CHG_AD2	I	(Position/ bottom) Chngr sw A-D detection input 2
7	CHG_AD1	I	(Open Clamp) Chngr sw A-D detection input 1
8	CDRST	O	CD reset output
9	STATUS	I	CD signal processor status input (INV)
10	LM_L	I	Level meter left
11	LM_R	I	Level meter right
12	ST/DO/ SQCK	I/O	Tuner if data/stereo input and CD subcode clock output
13	SD	I/O	Tuner signal detect input
14	SUBQ	I	CD subcode data input (INV)

Pin No.	Mark	I/O	Function
15	**V_JOG_A**	**I**	**Volume jog A-D detection input A**
16	**V_JOG_B**	**I**	**Volume jog A-D detection input B**
17	**CNVSS**	**-**	**Flash mode terminal (connect to ground)**
18	**/RESET**	**-**	**RESET input**
19	**XCOUT**	**-**	**32.768 kHz sub clock**
20	**XCIN**	**-**	**32.768 kHz sub clock**
21	**VSS**	**-**	**Ground (0V)**
22	**XIN**	**-**	**4.19 MHz main clock**
23	**XOUT**	**-**	**4.19 MHz main clock**
24	**VCC**	**-**	**Power supply (+5V)**
25	**MBP1**	**O**	**MPU beat proof output 1**
26	**MBP2**	**O**	**MPU beat proof output 2**
27	**MCLK/ PLLCK**	**O**	**CD command clock output/ tuner PLL clock output**
28	**MDATA/ PLLDA**	**O**	**CD command data output/ tuner PLL data output**
29	**RMT**	**I**	**Remote control input**
30	**BLKCK**	**I**	**CD block clock input (INV)**
31	**MLD/ PLLCE**	**O**	**CD command load output/ tuner PLL chip enable**
32	**SYNC**	**I**	**AC failure detect input**
33	**DCDET**	**I**	**DC detect input**
34	**CHG_CCW**	**O**	**Changer motor CCW output**
35	**CHG_CW**	**O**	**Changer motor CW output**
36	**CHG_HLF**	**O**	**Changer half drive output**
37	**CHG_PGR**	**0**	**Changer plunger output**
38	**CHG_SW2**	**I/O**	**CD changer SW2 input**
39	**CHG_SW1**	**I/O**	**CD changer SW1 input**

Pin No.	Mark	I/O	Function
40	**/RESTSW**	**I**	**CD limit SW input for the most inner point (Active Low)**
41	**PCONT**	**O**	**Main transformer control output**
42	**/CD**	**O**	**CD power control**
43	**MUTE_A**	**O**	**Audio mute**
44	**MUTE_H**	**O**	**HIC mute**
45	**NC**	**-**	**NC**
46	**SSEQ_ LED**	**O**	**Super sound EQ LED**
47-51	**NC**	**-**	**NC**
52-77	**SEG27 - SEG2**	**O**	**Segment drive output (Anode drive output)**
78	**SEG1**	**O**	**Segment drive output. Regional/ Function setting use**
79-80	**GRID10 - GRID 9**	**O**	**Digital drive output (Grid drive output). For regional setting / function selection use**
81-88	**REG8/ GRID8 - REG1/ GRID1**	**O**	**Digital drive output (Grid drive output). For regional setting / function selection use**
89	**VEE**	**-**	**Power supply (-30V)**
90	**REG_IN**	**I/O**	**Region and function setting input and eeprom chip select output**
91	**EE_CS**	**O**	**EEPROM chip select**
92	**SER5**	**O**	**(EE_CLK/EX1_CLK)**
93	**SER4**	**O**	**(MK_CLK_)**
94	**SER3**	**O**	**(EE_DAT/EX1_DAT)**
95	**SER2**	**O**	**(ASP_CLK)**
96	**SER1**	**O**	**(ASP_DATA / MK_DAT)**
97	**AVSS**	**-**	**Analog ground (0V)**
98	**VREF**	**-**	**Reference for A-D**
99	**TPS**	**I**	**TPS/Chrome1/ Chrome2**
100	**DECK1**	**I**	**Tape mecha condition input (Half1/ Mode/Photo1/ Photo 2)**

15. Block Diagram

16. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S600

: Power switch

S601

: Display switch

S602

: Disc 1 switch

S603

: Disc 2 switch

S604

: Disc 3 switch

S605

: Disc 4 switch

S606

: Disc 5 switch

S607

: CD Open/ Close switch

S701

: Reset switch

S910

: CD Play switch

S911

: Tape Play switch

S912

: Tuner / Band switch

S913

: AUX switch

S914

: Super Sound EQ switch

S920

: Deck 2 Eject switch

S921

: FF switch

S922

: Stop / Demo switch

S923

: REW switch

S924

: Deck 1 Eject switch

S925

: Deck 1/2 switch

S926

: Rec / Stop switch

S928

: Preset EQ / Subwoofer switch

S951

: Mode switch

S952

: Half switch

S953

: CR02 switch

S971

: Mode switch

S972

: Half switch

S973

: CR02 switch

S974

: Recinh_r switch

S975

: Recinh_f switch

S976

: Metal switch

- **The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveformsdepending upon the internal impedance of the tester or the measuring unit.**

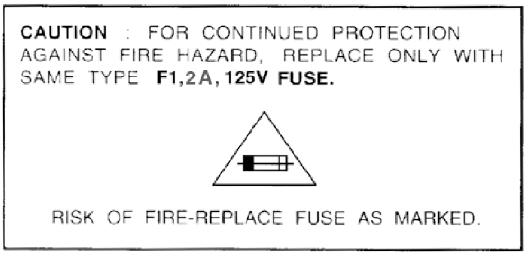
No mark : Playback
<< >> : Rec
< > : FM
(( )) : CD

- **Importance safety notice :**
  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. Whenreplacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

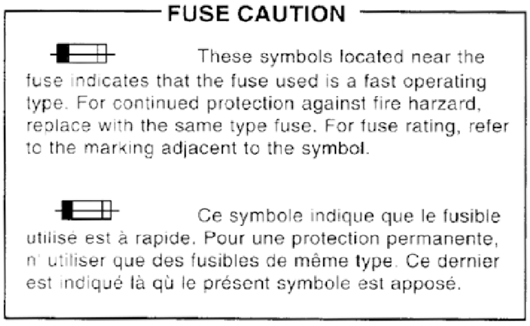
IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- **Cover the parts boxes made of plastics with aluminium foil.**
- **Put a conductive mat on the work table.**
- **Ground the soldering iron.**
- **Do not touch the pins of IC, LSI or VLSI with fingers directly.**



CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE **F1,2A, 125V FUSE.**

RISK OF FIRE-REPLACE FUSE AS MARKED.



FUSE CAUTION

These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

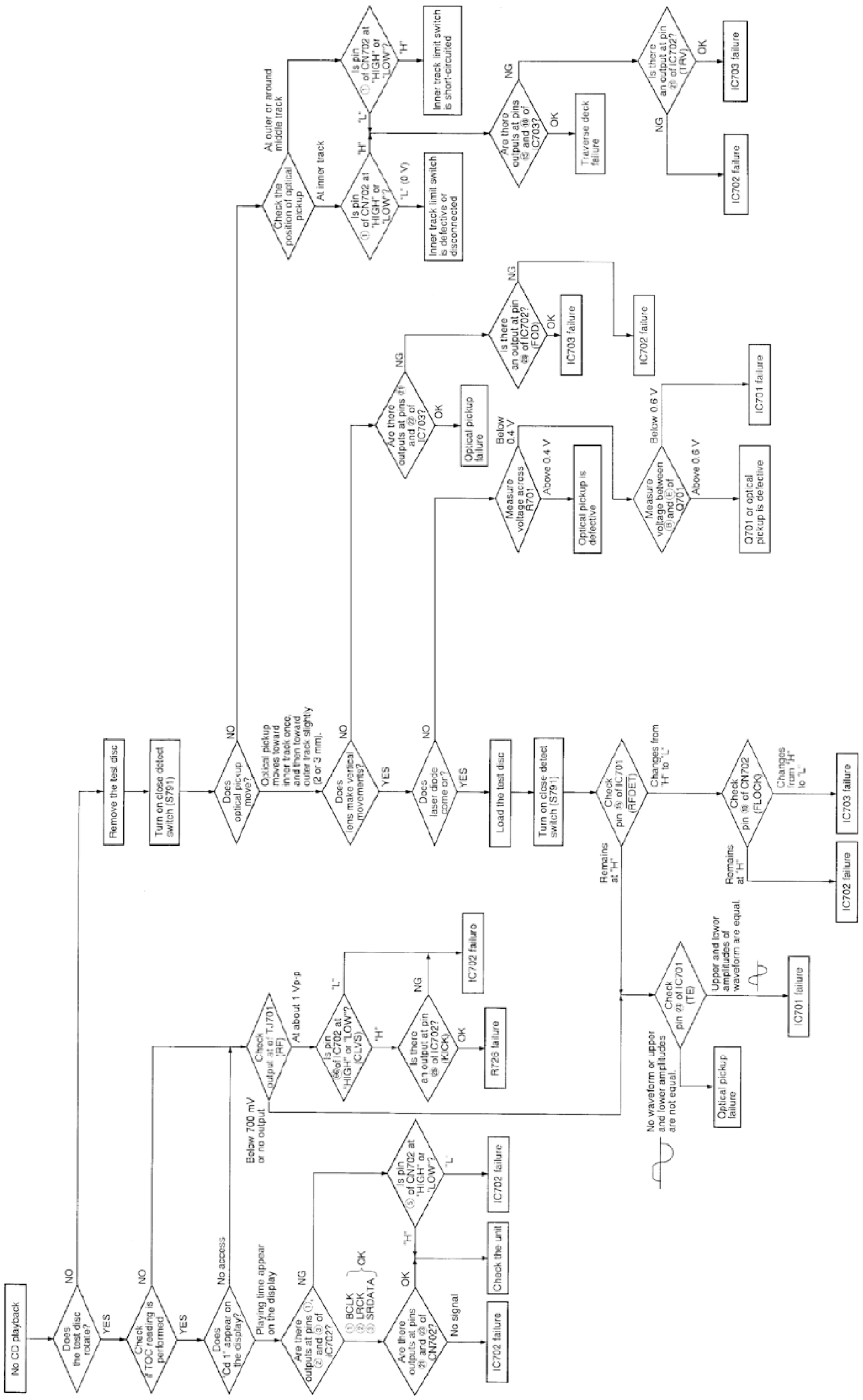
Ce symbole indique que le fusible utilise est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

17. Printed Circuit Board

Note: Circuit board diagrams may be modified at any time with the development of new technology.

18. Wiring Connection Diagram

19. Troubleshooting Guide


No CD playback
Does the test disc rotate?
NO
YES
Remove the test disc
Turn on close detect switch (S791)
Does optical pickup move?
NO
Check the position of optical pickup
At outer or around middle track
At inner track
Is pin ① of CN702 at "HIGH" or "LOW"?
"H"
"L"
Inner track limit switch is short-circuited
Is pin ① of CN702 at "HIGH" or "LOW"?
"H"
"L" (0 V)
Inner track limit switch is defective or disconnected
Are there outputs at pins ⑫ and ⑯ of IC703?
OK
Traverse deck failure
NG
Is there an output at pin ㉑ of IC702? (TRV)
NG
IC702 failure
OK
IC703 failure
Optical pickup moves toward inner track once, and then toward outer track slightly (2 or 3 mm).
Does lens make vertical movements?
NO
Are there outputs at pins ㉑ and ㉒ of IC703?
OK
Optical pickup failure
NG
Is there an output at pin ㉔ of IC702? (FCD)
OK
IC703 failure
NG
IC702 failure
YES
Does laser diode come on?
NO
Measure voltage across R701
Above 0.4 V
Optical pickup is defective
Below 0.4 V
Measure voltage between ⓑ and ⓔ of Q701
Above 0.6 V
Q701 or optical pickup is defective
Below 0.6 V
IC701 failure
YES
Load the test disc
Turn on close detect switch (S791)
Check pin ⑮ of IC701 (RFDET)
Changes from "H" to "L"
Check pin ⑯ of CN702 (FLOCK)
Changes from "H" to "L"
IC703 failure
Remains at "H"
IC702 failure
Remains at "H"
Check pin ㉓ of IC701 (TE)
Upper and lower amplitudes of waveform are equal.
IC701 failure
No waveform or upper and lower amplitudes are not equal.
Optical pickup failure
Check if TOC reading is performed
NO
YES
Does "Cd 1" appear on the display?
No access
Check output at of TJ701 (RF)
At about 1 Vp-p
Is pin ⑯ of IC702 at "HIGH" or "LOW"? (CLVS)
"L"
IC702 failure
"H"
Is there an output at pin ㉘ of IC702? (KICK)
NG
OK
R726 failure
Below 700 mV or no output
Playing time appear on the display
Are there outputs at pins ①, ② and ③ of IC702?
① BCLK
② LRCK
③ SRDATA
OK
NG
Is pin ⑤ of CN702 at "HIGH" or "LOW"?
"L"
IC702 failure
"H"
Check the unit
OK
Are there outputs at pins ㉑ and ㉓ of CN702?
No signal
IC702 failure

20. Parts Location and Replacement Parts List

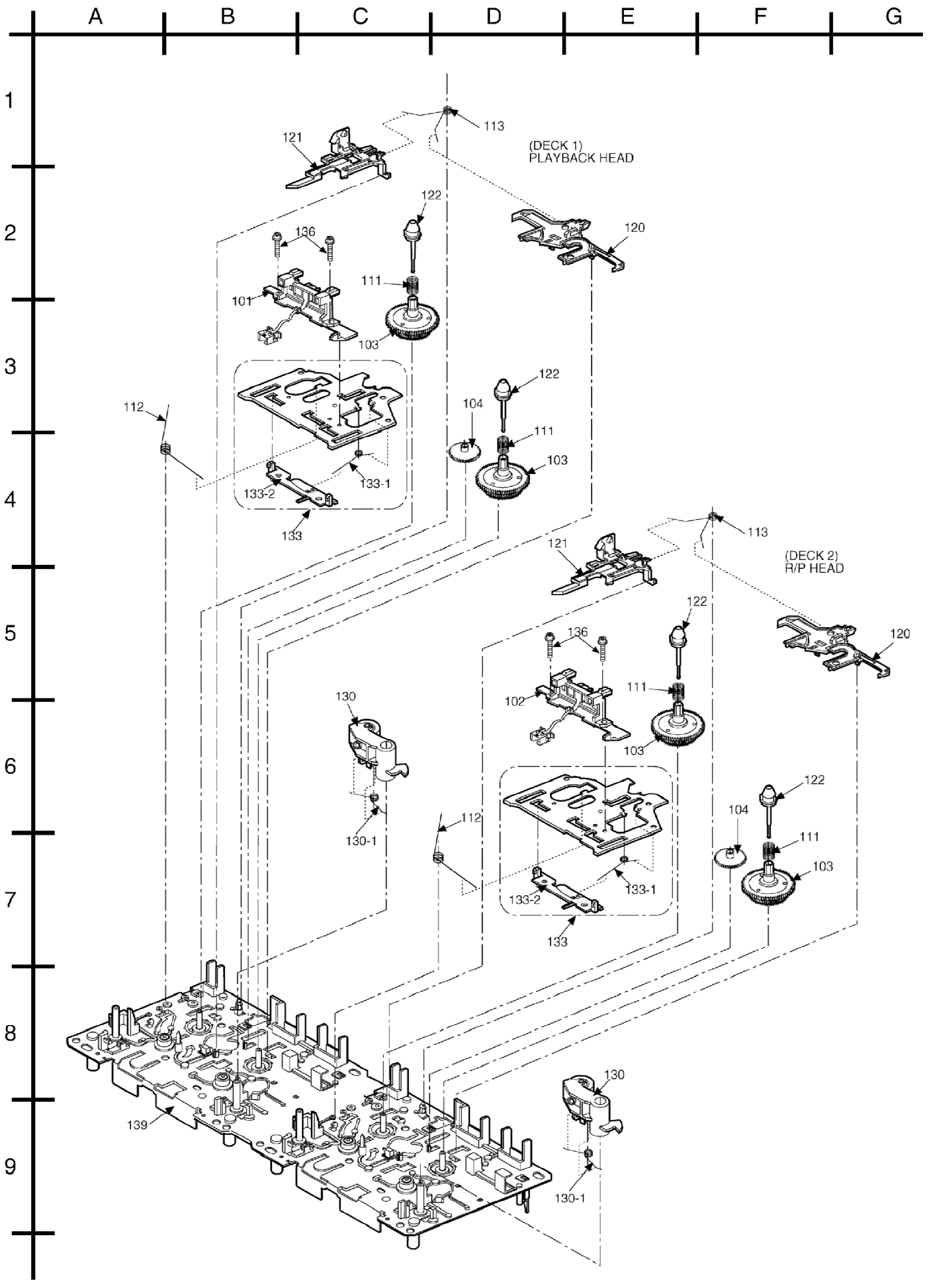
Notes:

- **Important safety notice:**
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- **The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to teh cover page for area or colour)**
  Parts without these indications can be used for all areas.
- **Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".**
- **Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.**
- **Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).**
- **The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availabilityis dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
- **[M] Indicates in the Remarks columns indicates parts supplied by MESA.**
- **The "(SF)" mark denotes the standard part.**
- **Remote Control Unit: Supply period for three years from terminal of production.**
- **Reference for O/I book languages are as follows:**

Ar :	**Arabic**	**Du :**	**Dutch**	**It :**	**Italian**	**Sp :**	**Spanish**
Cf :	**Canadian French**	**En :**	**English**	**Ko :**	**Korean**	**Sw :**	**Swedis**
Cz :	**Czech**	**Fr :**	**French**	**Po :**	**Polish**	**Co :**	**Traditio Chinese**
Da :	**Danish**	**Ge :**	**German**	**Ru :**	**Russian**	**Cn :**	**Simplifi Chinese**

20.1. Deck Mechanism (RAA4501-1S)

20.1.1. Deck Mechanism Parts Location



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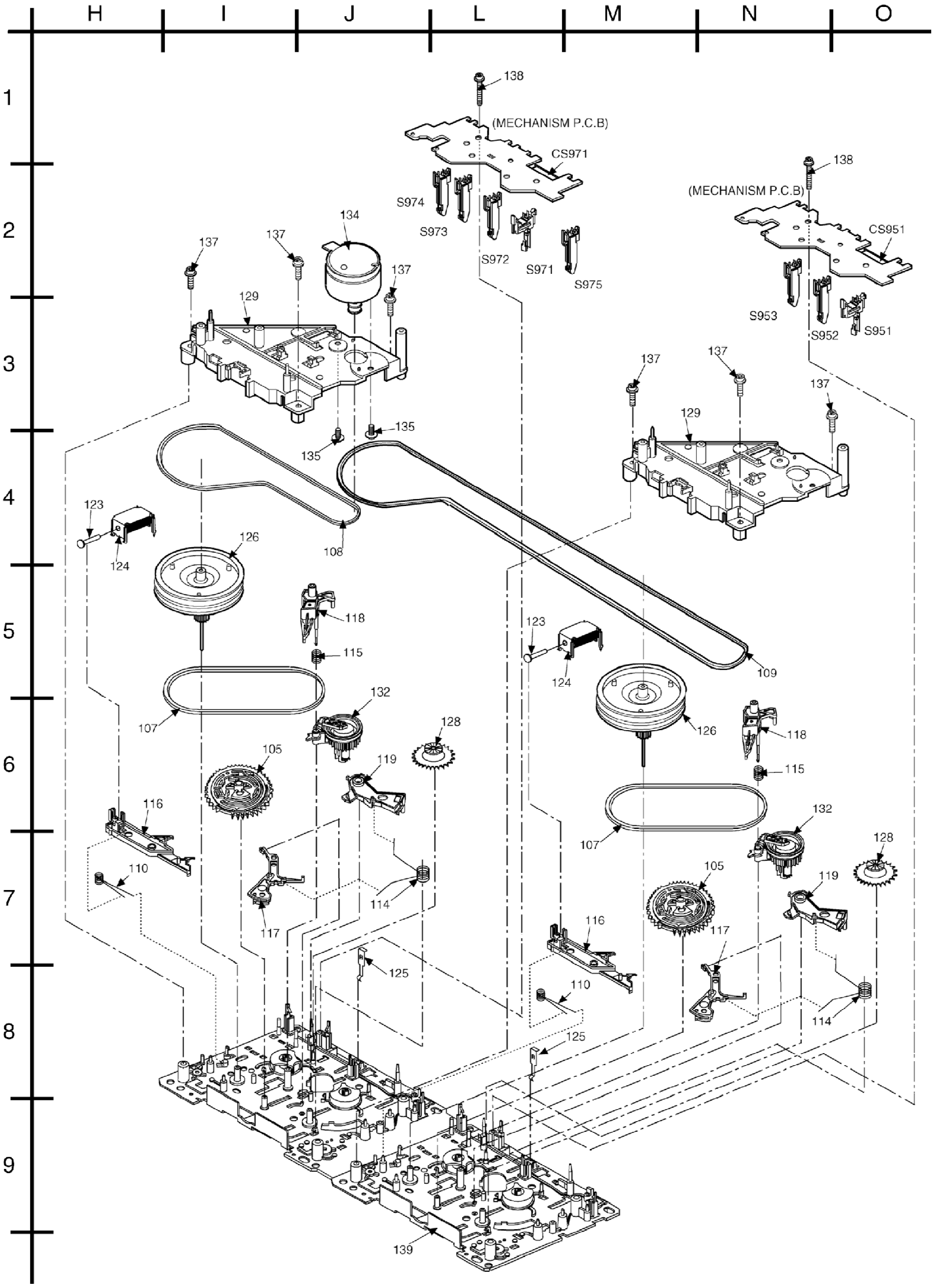
113
121
(DECK 1)
PLAYBACK HEAD
122
136
120
101
111
103
122
104
112
111
103
133-1
133-2
133
113
121
(DECK 2)
R/P HEAD
122
136
120
102
111
130
103
112
122
104
111
130-1
103
133-1
133-2
133
130
139
130-1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138
(MECHANISM P.C.B)
CS971
S974
S973
S972
S971
S975
138
(MECHANISM P.C.B)
CS951
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S951
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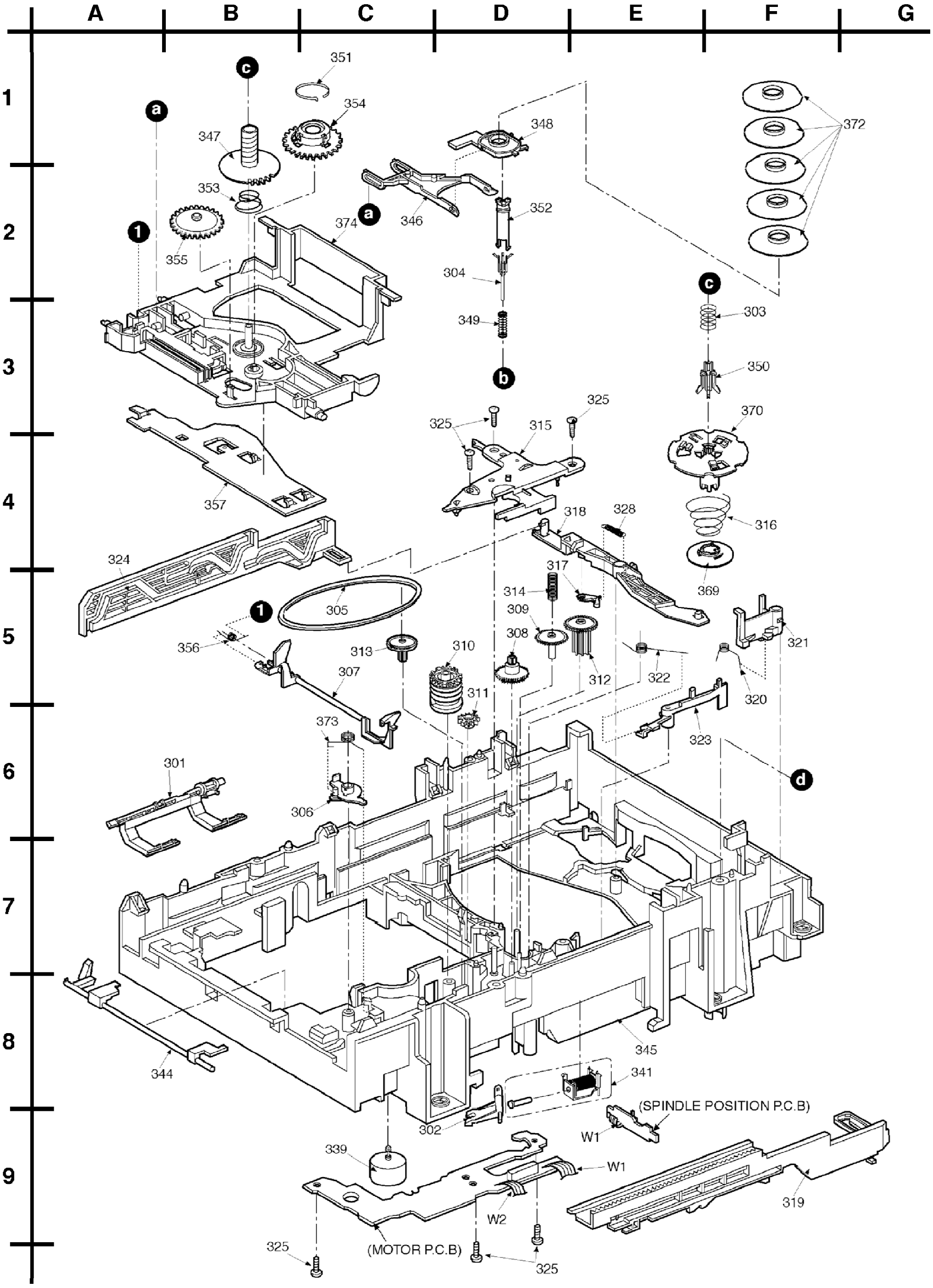
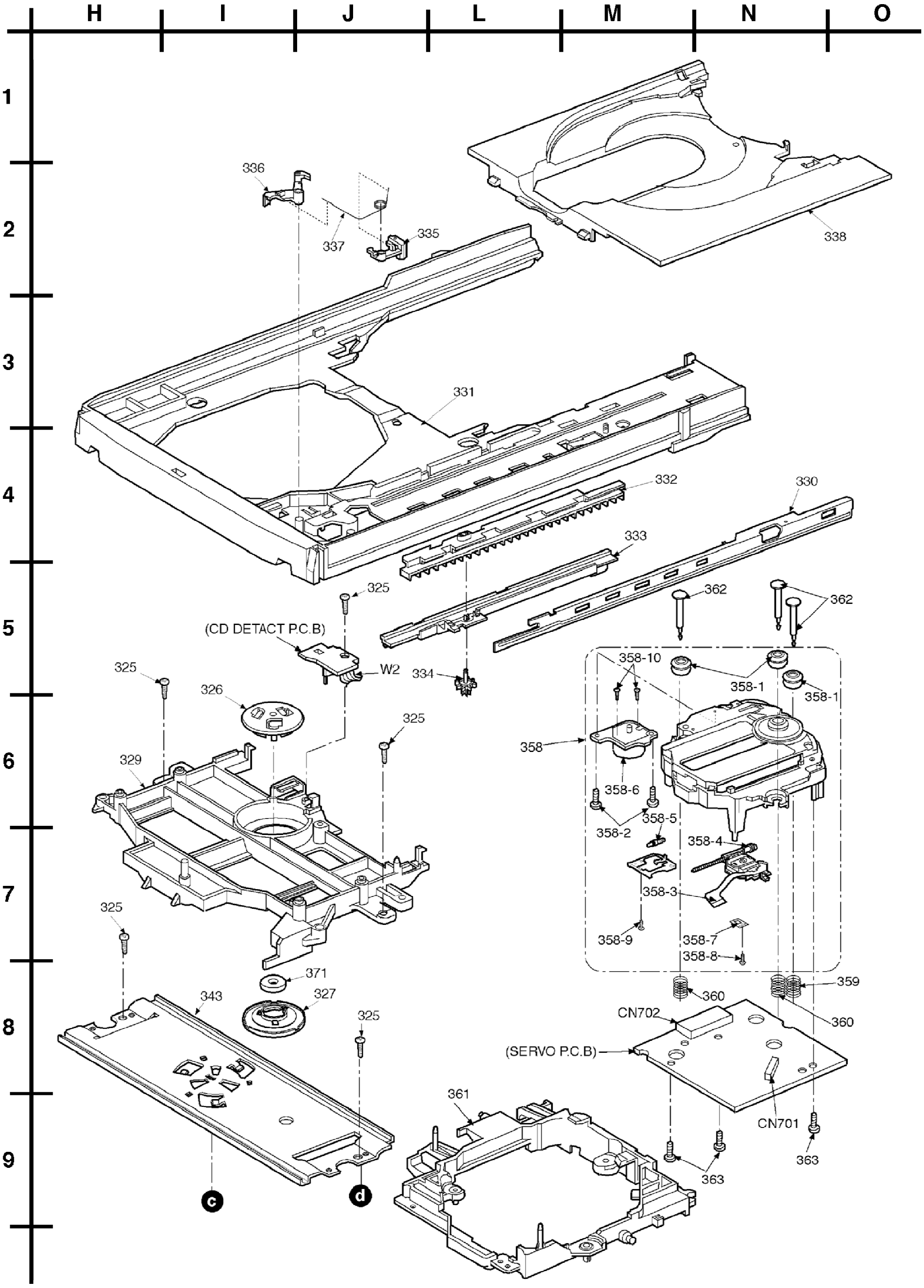
20.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0069	HEAD BLOCK UNIT	[M]
102	RED0070	R/P HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0064	CAPSTAN BELT	[M]
109	RDV0071	CAPSTAN BELT B	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAB PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398	MOVING CORE	[M]
124	RSJ0003	PLUNGER ASS’Y	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0049	FLYWHEEL F ASS’Y	[M]
128	RXG0040	FF RELAY GEAR ASS’Y	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASS’Y	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
132	RXL0126	WINDING ARM ASS’Y	[M]
133	RXQ0412	HEAD PANEL ASS’Y	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0088	CAP MOTOR ASS’Y	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCRE	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RFKJAA4501-S	CHASSIS ASS’Y	[M]

20.2. CD Loading Mechanism (RD-DAC026-S)

20.2.1. CD Loading Mechanism Parts Location


A
B
C
D
E
F
G
c
a
a
c
b
d
(SPINDLE POSITION P.C.B)
W1
W1
W2
(MOTOR P.C.B)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338
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333
325
362
362
(CD DETACT P.C.B)
358-10
325
W2
334
358-1
358-1
326
325
358
329
358-6
358-2
358-5
358-4
358-3
325
358-9
358-7
358-8
371
359
343
327
360
325
CN702
360
(SERVO P.C.B)
361
CN701
363
363
c
d

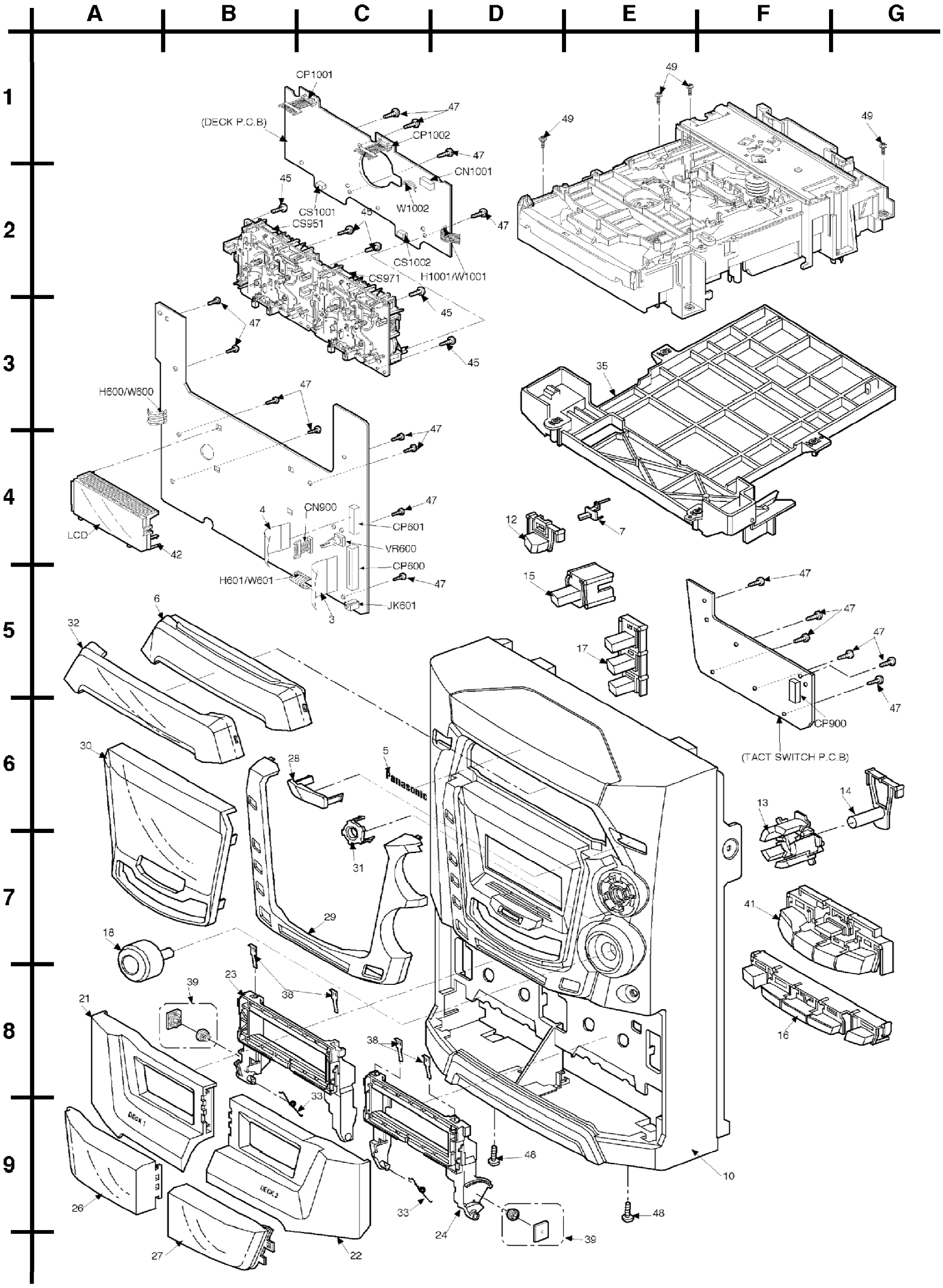
20.2.2. CD Loading Mechanism Parts List

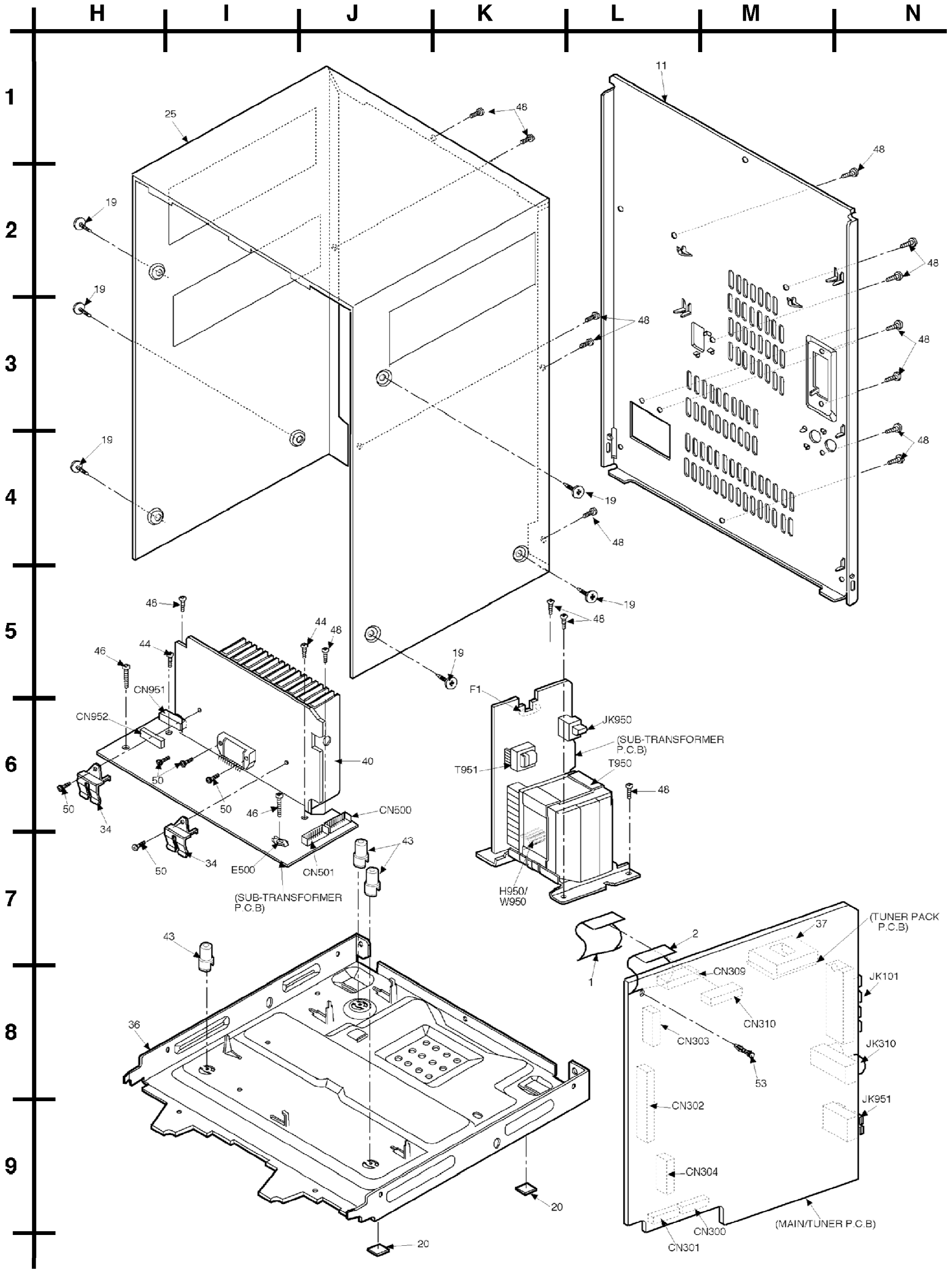
Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK LEVER	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRAVERSE CAM GEAR	[M]
311	RDG0428	TRAVERSE RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGE GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK	[M]
322	RME0257	TRAY LOCK LEVER SPRI	[M]
323	RML0520	TRAY LOCK	[M]
324	RMM0202	SLIDE PLATE 2	[M]
325	XTB3+10J	SCREW	[M]
326	RMR0334	FIXED PLATE	[M]
327	RMR0624-W2	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAY BASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR SUB ASS’Y	[M]
341	RSJ0003	SOLENOLD ASS’Y	[M]
343	RMA1106	UPPER PLATE	[M]
344	RML0519	8CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS’Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE SPRING	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR ‘A’	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
355	RDG0431	RELAY GEAR ‘B’	[M]
356	RME0262	DISK LEVER SP.	[M]
357	RMA1105	SUPPORT PLATE	[M]
358	RAE0152Z-3	TRAVERSE	[M]
358-1	SHGD113-1	FLOATING CUSHION	[M]
358-2	SNSD38	TRV MOTOR ASSY SCREW	[M]
358-3	RAF0150A-4S	50A OPTICAL PICKUP	[M]
358-4	RDG0247	DRIVE GEAR	[M]
358-5	RDG0248	RELAY GEAR	[M]
358-6	RXQ0339	TRAVERSE MOTOR ASSY	[M]
358-7	RXQ0304-1	NUT PLATE ASSY	[M]
358-8	XQN17+CG5	NUT PLATE ASSY SCREW	[M]
358-9	XQS2+A3FZ	SPINDLE MOTOR SCREW	[M]
358-10	XQS17+A35FZ	TRAVERSE MOTOR SCREW	[M]
359	RME0142	FLOATING SPRING A	[M]
360	RME0109	FLOATING SPRING B	[M]
361	RMR1124-K1	TRAVERSE CHASSIS	[M]
362	RMS0632	TRAVERSE PIN	[M]
363	XTN2+6G	SCREW	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	RHM0001	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]

20.3. Cabinet

20.3.1. Cabinet Parts Location


A
B
C
D
E
F
G
CP1001
(DECK P.C.B)
CP1002
CN1001
CS1001
CS951
W1002
CS1002
CS971
H1001/W1001
H600/W600
LCD
CN900
CP601
VR600
CP600
H601/W601
JK601
CP900
(TACT SWITCH P.C.B)
Panasonic


H
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CN951
CN952
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CN500
E500
CN501
(SUB-TRANSFORMER P.C.B)
43
F1
JK950
(SUB-TRANSFORMER P.C.B)
T951
T950
H950/ W950
2
1
37
(TUNER PACK P.C.B)
CN309
JK101
CN310
CN303
JK310
53
CN302
JK951
CN304
CN300
CN301
(MAIN/TUNER P.C.B)
36
20

20.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEX0170	19P FFC WIRE	[M]
2	REEX0083	14P FFC WIRE	[M]
3	REEX0162	18P FFC WIRE	[M]
4	REEX0163	17P FFC WIRE	[M]
5	RGB0113-N	PANA BADGE	[M]
6	RGKX0099-K	CD LID	[M]
7	RGLX0043-Q	POWER LIGHT CHIP	[M]
10	RGPX0053F-1K	FRONT PANEL	[M]
11	RGRX0020H-AA	REAR PANEL	[M]P
11	RGRX0020H-BA	REAR PANEL	[M]PC
12	RGUX0417-1K	POWER BUTTON	[M]
13	RGUX0424-1K	DISC BUTTON	[M]
14	RGUX0425-1K	DISC EJECT BUUTON	[M]
15	RGUX0426-1K	DISPLAY BUTTON	[M]
16	RGUX0428-1K	DECK BUTTON	[M]
17	RGUX0431-1K	TAPE SELECT BUTTON	[M]
18	RGWX0062-1S	VOLUME KNOB	[M]
19	RHD30002-K	SIDE SCREW	[M]
20	RKA0059-K	LEG RUBBER	[M]
21	RKFX0091-1K	CASS. LID (L)	[M]
22	RKFX0092-1K	CASS. LID (R)	[M]
23	RKFX0093-K	CASS. HOLDER (L)	[M]
24	RKFX0094-K	CASS. HOLDER (R)	[M]
25	RKMX0066-K	TOP CABINET (BENT)	[M]
26	RKWX0163-H	CASS. WINDOW (L)	[M]
27	RKWX0164-H	CASS. WINDOW (R)	[M]
28	RKWX0165-H	REMOTE SENSOR WINDOW	[M]
29	RKWX0166-1H	FL ORNAMENT	[M]
30	RKWX0167-H	FL WINDOW	[M]
31	RKWX0168-S	DISC BUTTON ORNAMENT	[M]
32	RKWX0169-1H	CD LID COVER	[M]
33	RMBX0018	CASS. OPEN SPRING	[M]
34	RMC0158-S	TR-FIXTURE	[M]
35	RMKX0054A	CD CHASSIS	[M]
36	RMKX0055-J	BOTTOM CHASSIS	[M]
37	RSC0027-2	TUNER PACK	[M]
38	RUS757ZAA	CASSETTE HALF SPRING	[M]
39	RXGX0001	DAMPER GEAR	[M]
40	RXXX0033	HEAT SINK UNIT	[M]
41	RYQX0052-1S	FUNCTION BUTTON UNIT	[M]
42	RMNX0067	FL HOLDER	[M]
43	SHE187-5J	PCB SUPPORT	[M]
44	XTB3+10J	SCREW	[M]
45	XTB3+10JFZ	SCREW	[M]
46	XTB3+20J	SCREW	[M]
47	XTBS26+10J	SCREW	[M]
48	XTBS3+8JFZ1	SCREW	[M]
49	XTW3+12T	SCREW	[M]
50	XTW3+15T	SCREW	[M]
53	RMNX0019	PCB SPACER	[M]

20.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REPX0192D	CD SERVO P.C.B.	[M](RTL)
	REPX0292A	MAIN / TUNER P.C.B.	[M](RTL)
	REPX0293A	PANEL P.C.B.	[M](RTL)
	REPX0293A	TACT SWITCH P.C.B.	[M](RTL)
	REPX0282A	DECK P.C.B.	[M](RTL) - PC
	REPX0282E	DECK P.C.B.	[M](RTL) - P
	REPX0108H	MECHANISM (DECK 1) P.C.B.	[M](RTL)
	REPX0108F	MECHANISM (DECK 2) P.C.B.	[M](RTL)
	REPX0302A	POWER P.C.B.	[M](RTL)
	REPX0294A	TRANSFORMER P.C.B.	[M](RTL)
	REP2578A-N	CD LOADING P.C.B.	[M](RTL)
	REP2578A-N	CD DETECT P.C.B.	[M](RTL)
	REP2578A-N	SPINDLE POSITION P.C.B.	[M](RTL)
	REP1999B	TUNER P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC1	TA7291P	IC DRIVE	[M]
IC101	LA1833NMNTLM	IC IF & MPX	[M]
IC102	LC72131MDTRM	IC PLL	[M]
IC300	C1BB00000654	IC ASP	[M]
IC302	C0AABB000117	IC OP-AMP (HP AMP)	[M]
IC500	RSN35H1A-P	IC POWER	[M] ⚠
IC600	C2BBGF000313	IC MICROPROCESSOR	[M]
IC701	AN8885SBE1	IC SERVO AMP	[M]
IC702	MN662790RSC	IC SERVO PROCESSOR	[M]
IC703	AN8739SBE2	IC 4CH DRIVER	[M]
IC951	0N2180RLC1	IC PHOTO INTERRUPTER	[M]
IC971	0N2180RLC1	IC PHOTO INTERRUPTER	[M]
IC1001	AN7348STA-E1	IC TAPE PB	[M]
IC1002	BU2090AF-E2	IC I/O EXPANDER	[M]
IC1004	BA7755A	IC R/P SELECT	[M]
		TRANSISTORS	
Q1	2SK544F-AC	TRANSISTOR	[M]
Q1	RVTDTC143EST	TRANSISTOR	[M]
Q2	2SC2786MTA	TRANSISTOR	[M]
Q3	2SC2787FL1TA	TRANSISTOR	[M]
Q4	2SC2787FL1TA	TRANSISTOR	[M]
Q101	2SC2058SPTA	TRANSISTOR	[M]
Q106	KRA102MTA	TRANSISTOR	[M] ⚠
Q202	KTC3875GRTA	TRANSISTOR	[M]
Q203	KTD1304TA	TRANSISTOR	[M]
Q204	KTC3875GRTA	TRANSISTOR	[M]
Q207	KTD1304TA	TRANSISTOR	[M]
Q301	KRC102STA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q302	**KTA12710YTA**	**TRANSISTOR**	**[M]**
Q303	**KRC101STA**	**TRANSISTOR**	**[M]**
Q304	**KRC101STA**	**TRANSISTOR**	**[M]**
Q305	**KRC101STA**	**TRANSISTOR**	**[M]**
Q307	**KRA102STA**	**TRANSISTOR**	**[M]**
Q308	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q309	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q320	**KTC3205YTA**	**TRANSISTOR**	**[M]** ⚠
Q401	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q402	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q403	**KTD1304TA**	**TRANSISTOR**	**[M]**
Q404	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q407	**KTD1304TA**	**TRANSISTOR**	**[M]**
Q500	**KTC2026**	**TRANSISTOR**	**[M]** ⚠
Q501	**KTA1046**	**TRANSISTOR**	**[M]** ⚠
Q503	**KTA1046**	**TRANSISTOR**	**[M]**
Q504	**KRA110MTA**	**TRANSISTOR**	**[M]**
Q505	**KTC3199GRTA**	**TRANSISTOR**	**[M]** ⚠
Q506	**B1AAKD000009**	**TRANSISTOR**	**[M]** ⚠
Q507	**KRA110MTA**	**TRANSISTOR**	**[M]**
Q508	**KTA12710YTA**	**TRANSISTOR**	**[M]**
Q509	**KTC3199GRTA**	**TRANSISTOR**	**[M]** ⚠
Q512	**2SD2144STA**	**TRANSISTOR**	**[M]**
Q513	**KTA1267GRTA**	**TRANSISTOR**	**[M]**
Q600	**KRC103MTA**	**TRANSISTOR**	**[M]**
Q603	**KTC3199GRTA**	**TRANSISTOR**	**[M]**
Q604	**KTC3199GRTA**	**TRANSISTOR**	**[M]**
Q605	**KRC102MTA**	**TRANSISTOR**	**[M]**
Q608	**KTC3199GRTA**	**TRANSISTOR**	**[M]**
Q701	**2SA1037AKSTX**	**TRANSISTOR**	**[M]**
Q950	**KTC3205YTA**	**TRANSISTOR**	**[M]** ⚠
Q951	**2SB621ARSTA**	**TRANSISTOR**	**[M]** ⚠
Q953	**2SD2144STA**	**TRANSISTOR**	**[M]**
Q1001	**KTC3199GRTA**	**TRANSISTOR**	**[M]**
Q1003	**2SD2144STA**	**TRANSISTOR**	**[M]**
Q1004	**2SD2144STA**	**TRANSISTOR**	**[M]**
Q1005	**2SD2144STA**	**TRANSISTOR**	**[M]**
Q1007	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q1008	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q1009	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q1010	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q1011	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q1012	**KTD1304TA**	**TRANSISTOR**	**[M]**
Q1013	**KTD1304TA**	**TRANSISTOR**	**[M]**
Q1014	**2SC2412KT96R**	**TRANSISTOR**	**[M]**
Q1015	**2SC2412KT96R**	**TRANSISTOR**	**[M]**
Q1016	**KRA102STA**	**TRANSISTOR**	**[M]**
Q1017	**KTD1146YTA**	**TRANSISTOR**	**[M]**
Q1018	**KTA12710YTA**	**TRANSISTOR**	**[M]**
Q1019	**KTA12710YTA**	**TRANSISTOR**	**[M]**
Q1020	**KTD1304TA**	**TRANSISTOR**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
Q1021	KTD1304TA	TRANSISTOR	[M]
Q1022	KRA102STA	TRANSISTOR	[M]
Q1023	KRA102STA	TRANSISTOR	[M]
		DIODES	
D1	GP1S94	DIODE	[M]
D1	SVC211SPA-AL	DIODE	[M]
D2	MTZJ4R7BTA	DIODE	[M]
D2	SVC211SPA-AL	DIODE	[M]
D3	SVC211SPA-AL	DIODE	[M]
D101	UDZSTE175R1B	DIODE	[M]
D202	MA728TX	DIODE	[M]
D301	1SS355TE17	DIODE	[M]
D302	DAP202KT146	DIODE	[M]
D303	DAP202KT146	DIODE	[M]
D308	RL1N4003N02	DIODE	[M]
D311	UDZSTE175R1B	DIODE	[M]
D312	RL1N4003N02	DIODE	[M]
D313	MA728TX	DIODE	[M]
D314	MA728TX	DIODE	[M]
D315	MA728TX	DIODE	[M]
D316	MA728TX	DIODE	[M]
D317	UDZSTE177R5B	DIODE	[M]
D402	MA728TX	DIODE	[M]
D404	DA204KT146	DIODE	[M]
D405	MA728TX	DIODE	[M]
D500	MTZJ15CTA	DIODE	[M]
D503	MTZJ10BTA	DIODE	[M]
D504	RVD1SS133TA	DIODE	[M]
D505	RVD1SS133TA	DIODE	[M]
D506	RVD1SS133TA	DIODE	[M]
D507	MTZJ5R6BTA	DIODE	[M]
D508	MTZJ16BTA	DIODE	[M]
D509	RL1N4003N02	DIODE	[M]
D510	RL1N4003N02	DIODE	[M]
D511	RL1N4003N02	DIODE	[M]
D513	RL1N4003N02	DIODE	[M]
D611	1SS380TE-17	DIODE	[M]
D612	1SS380TE-17	DIODE	[M]
D613	RVD1SS133TA	DIODE	[M]
D614	RVD1SS133TA	DIODE	[M]
D616	MTZJ5R6BTA	DIODE	[M]
D617	RVD1SS133TA	DIODE	[M]
D618	RVD1SS133TA	DIODE	[M]
D620	SLI325URCT31	DIODE	[M]
D621	MA723TA	DIODE	[M]
D902	SLR325YCT31	DIODE	[M]
D903	SLR325YCT31	DIODE	[M]
D950	1D3E	DIODE	[M]
D951	1D3E	DIODE	[M]
D951	MA165TA	DIODE	[M]
D952	MTZJ6R8BTA	DIODE	[M]
D953	1D3E	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D954	1D3E	DIODE	[M]
D955	1D3E	DIODE	[M]
D956	RL1N4003N02	DIODE	[M]
D957	MTZJ30ATA	DIODE	[M]
D958	RL1N4003N02	DIODE	[M]
D961	RL1N4003N02	DIODE	[M] ⚠
D962	RL1N4003N02	DIODE	[M] ⚠
D963	RL1N4003N02	DIODE	[M] ⚠
D964	RL1N4003N02	DIODE	[M] ⚠
D965	1N5402BM21	DIODE	[M] ⚠
D966	1N5402BM21	DIODE	[M] ⚠
D967	1N5402BM21	DIODE	[M] ⚠
D968	1N5402BM21	DIODE	[M] ⚠
D971	MA165TA	DIODE	[M]
D1003	1SS355TE17	DIODE	[M]
D1004	UDZTE173R6B	DIODE	[M]
		VARIABLE RESISTORS	
VR600	EVEKE2F3024M	VOLUME JOG	[M]
		SWITCHES	
S600	EVQ21405R	SW POWER	[M]
S601	EVQ21405R	SW DISPLAY	[M]
S602	EVQ21405R	SW DISC 1	[M]
S603	EVQ21405R	SW DISC 2	[M]
S604	EVQ21405R	SW DISC 3	[M]
S605	EVQ21405R	SW DISC 4	[M]
S606	EVQ21405R	SW DISC 5	[M]
S607	EVQ21405R	SW CD OPEN/CLOSE	[M]
S701	RSH1A043-U	SW REST	[M]
S910	EVQ21405R	SW CD PLAY	[M]
S911	EVQ21405R	SW TAPE PLAY	[M]
S912	EVQ21405R	SW TUNER/BAND	[M]
S913	EVQ21405R	SW AUX	[M]
S914	EVQ21405R	SW SUPER SOUND EQ	[M]
S920	EVQ21405R	SW DECK 2 EJECT	[M]
S921	EVQ21405R	SW FF	[M]
S922	EVQ21405R	SW STOP / DEMO	[M]
S923	EVQ21405R	SW REW	[M]
S924	EVQ21405R	SW DECK 1 EJECT	[M]
S925	EVQ21405R	SW DECK 1/2	[M]
S926	EVQ21405R	SW REC STOP	[M]
S928	EVQ21405R	SW S.W./PRESET EQ	[M]
S951	RSH1A018-3U	SW MODE	[M]
S952	RSH1A019-2U	SW HALF	[M]
S953	RSH1A019-2U	SW CR02	[M]
S971	RSH1A019-2U	SW MODE	[M]
S972	RSH1A019-2U	SW HALF	[M]
S973	RSH1A019-2U	SW CR02	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
S974	RSH1A019-2U	SW RECINH_R	[M]
S975	RSH1A019-2U	SW RECINH_F	[M]
S976	RSH1A019-2U	SW METAL	[M]
		SWITCHES	
SW1	RSH1A032-U	SW PUSH	[M]
SW2	RSH1A032-U	SW PUSH	[M]
SW3	RSH1A005-1U	SW	[M]
SW4	RSH1A91ZA-A	SW CD	[M]
SW5	RSP1A017-A	SW LOCK	[M]
		CONNECTORS	
CN1	RJS1A9414	FF CONNECTOR	[M]
CN300	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN301	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN302	RJS1A9418	19P FFC CONNECTOR	[M]
CN303	RJS1A9417	FFC CONNECTOR	[M]
CN304	RJS1A5210	10P WIRE HOLDER	[M]
CN309	RJS1A9414-1	14P CONNECTOR	[M]
CN310	RJS1A9419-1	19P CONECTOR	[M]
CN500	RJT057G12	12P P2 MQ CONNECTOR	[M]
CN501	RJT057G12	12P P2 MQ CONNECTOR	[M]
CN701	RJS2A8616	16P FPC CONNECTOR	[M]
CN702	RJS1A6719-1Q	19P FFC CONNECTOR	[M]
CN900	RJT066H08D	8 PIN B-B CONNECTOR	[M]
CN951	RJP13G4YA	13P CONNECTOR	[M]
CN952	RJP7G18ZA	7P CONNECTOR	[M]
CN1001	52151-0810	8P WIRE TRAP	[M]
CP600	RJS1A9418	19P FFC CONNECTOR	[M]
CP601	RJS1A9417	FFC CONNECTOR	[M]
CP900	RJU066H08	8P B-B SOCKET	[M]
CP1001	RJT071K09A	9P B/B CONNECTOR	[M]
CP1002	RJT071K09A	9P B/B CONNECTOR	[M]
CS951	RJU071H09M1	CONNECTOR	[M]
CS971	RJU071H09M1	CONNECTOR	[M]
CS1001	RJS1A6805-J	5P CONNECTOR SOCKET	[M]
CS1002	RJS1A6805-J	5P CONNECTOR SOCKET	[M]
		COILS & TRANSFORMERS	
L1	RLQZP1R2KT-Y	COIL	[M]
L2	RLQZPR47KT-Y	COIL	[M]
L102	RLQB1R0KTD-D	INDUCTOR	[M]
L600	RLQB3R3KT-1Y	COIL	[M]
L602	RLQB101KT-1Y	COIL	[M]
L606	RLQZP101KT-Y	AXIAL COIL	[M]
L607	RLQZP101KT-Y	AXIAL COIL	[M]
L608	RLQZP100KT-Y	AXIAL COIL	[M]
L1001	RLQB470JTD-D	RF CHOKE COIL	[M]
L1002	7L1A62N	BIAS OSC COIL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
T950	**G4C6AED00004**	**MAIN TRANSFORMER**	**[M]** ⚠
T951	**RTP1H3E002**	**BACK UP TRANSFORMER**	**[M]** ⚠
		COMPONENT COMBINATION	
Z101	**RLA2Z007-T**	**COIL**	**[M]**
Z102	**RLI2Z021M-T**	**AM IF BLOCK**	**[M]**
Z600	**RCD37142TC5**	**R/C SENSOR**	**[M]**
Z950	**ERZV10V511CS**	**ZENER**	**[M]** ⚠
Z971	**RGSD12A1445T**	**RADA RESISTOR**	**[M]**
Z1002	**RGSD12A1445T**	**RADA RESISTOR**	**[M]**
		CERAMIC FILTERS	
CF201	**RLFFETWND01M**	**FM CF**	**[M]**
CF202	**RLFFETWND01M**	**FM CF**	**[M]**
		RELAY	
RL950	**RSY0040M-0**	**PRIMARY RELAY**	**[M]** ⚠
		OSCILLATORS	
X102	**RLFDFT22DD**	**DISCRIMINATOR**	**[M]**
X103	**RSXC7M20S05T**	**CRYSTAL OSCILLATOR**	**[M]**
X600	**RSXD32K7S02**	**CRYSTAL OSCILLATOR**	**[M]**
X601	**RSXZ4M19B01T**	**CRYSTAL OSCILLATOR**	**[M]**
X701	**RSXZ16M9M01T**	**CERAMIC OSCILLATOR**	**[M]**
		DISPLAY TUBE	
FL600	**A2BD00000047**	**FL DISPLAY**	**[M]**
		FUSES	
F1	**K5D202AQ0005**	**2A FUSE**	**[M]** ⚠
		FUSE HOLDERS	
FC1	**EYF52BC**	**FUSE HOLDER**	**[M]**
FC2	**EYF52BC**	**FUSE HOLDER**	**[M]**
		FUSE PROTECTOR	
FP950	**K5G402AA0002**	**FUSE PROTECTOR**	**[M]** ⚠
FP951	**K5G102AA0002**	**FUSE PROTECTOR**	**[M]** ⚠
		HOLDERS	
H600	**RMR0316**	**7P CABLE HOLDER**	**[M]**
H601	**RMR0317**	**8P CABLE HOLDER**	**[M]**

H001	KMR0317	3P CABLE HOLDER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
H950	K1YF13000001	13P WIRE HOLDER	[M]
H1001	RMR0319	10P CABLE HOLDER	[M]
		JACKS	
JK101	RJH5414-1	JK ANTENNA	[M]
JK305	RJH2213L-1	JK 2P RCA	[M]
JK310	RJR0054E-J	JK SPEAKER-OUT	[M]
JK601	RJJ37TK07-X	JK HP/MIC	[M]
JK950	K2AB2B000002	JK AC INLET	[M] ⚠
		EARTH TERMINAL	
E500	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REZ1023-1	4P WIRE	[M]
W2	REZ1024	3P WIRE	[M]
W600	REXX0285	7P WIRE	[M]
W601	RWJ0208145RX	8P FLAT WIRE	[M]
W950	REXX0284	13P FLAT WIRE	[M]
W1001	RWJ6510109XX	10P WIRE	[M]P
W1001	RWJ6510110XX	10P WIRE	[M]PC
W1002	RWJ0102050CK	MAIN-MECHA MOTOR WIR	[M]
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R1	ERDS2TJ104T	100K 1/4W	[M]
R2	ERDS2TJ104T	100K 1/4W	[M]
R3	ERDS2TJ221T	220 1/4W	[M]
R4	ERDS2TJ104T	100K 1/4W	[M]
R5	ERDS2TJ564T	560K 1/4W	[M]
R6	ERDS2TJ391T	390 1/4W	[M]
R7	ERDS2TJ272T	2.7K 1/4W	[M]
R8	ERDS2TJ684T	680K 1/4W	[M]
R9	ERDS2TJ391T	390 1/4W	[M]
R10	ERDS2TJ391T	390 1/4W	[M]
R11	ERDS2TJ684T	680K 1/4W	[M]
R101	ERJ3GEY0R00V	0 1/16W	[M]
R102	ERJ3GEYJ472V	4.7K 1/16W	[M]
R103	ERJ3GEYJ271V	270 1/16W	[M]
R104	ERJ3GEYJ102V	1K 1/16W	[M]
R105	ERJ3GEYJ471V	470 1/16W	[M]
R106	ERJ3GEYJ474V	470K 1/16W	[M]
R107	ERJ3GEYJ331V	330 1/16W	[M]
R110	ERJ3GEYJ102V	1K 1/16W	[M]
R111	ERJ3GEYJ391V	390 1/16W	[M]
R112	ERJ3GEYJ104V	100K 1/16W	[M]
R113	ERJ3GEYJ103V	10K 1/16W	[M]
R114	ERJ3GEYJ562V	5.6K 1/16W	[M]
R115	ERJ3GEYJ561V	560 1/16W	[M]
R116	ERJ3GEYJ102V	1K 1/16W	[M]

R110	ERJ3GEYJ102V	1K 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R117	ERJ3GEYJ473V	47K 1/16W	[M]
R118	ERJ3GEYJ332V	3.3K 1/16W	[M]
R119	ERJ3GEYJ332V	3.3K 1/16W	[M]
R120	ERJ3GEYJ473V	47K 1/16W	[M]
R121	ERJ3GEYJ223V	22K 1/16W	[M]
R122	ERJ3GEYJ272V	2.7K 1/16W	[M]
R123	ERJ3GEYJ683V	68K 1/16W	[M]
R124	ERJ3GEYJ330V	33 1/16W	[M]
R125	ERJ3GEYJ471V	470 1/16W	[M]
R126	ERJ3GEYJ102V	1K 1/16W	[M]
R127	ERJ3GEYJ471V	470 1/16W	[M]
R128	ERJ3GEYJ820V	82 1/16W	[M]
R129	ERJ3GEYJ273V	27K 1/16W	[M]
R130	ERJ3GEYJ103V	10K 1/16W	[M]
R131	ERJ3GEYJ121V	120 1/16W	[M]
R132	ERJ3GEYJ103V	10K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]
R134	ERJ3GEYJ471V	470 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	ERJ3GEYJ102V	1K 1/16W	[M]
R137	ERJ3GEYJ102V	1K 1/16W	[M]
R138	ERJ3GEYJ332V	3.3K 1/16W	[M]
R141	ERJ3GEYJ682V	6.8K 1/16W	[M]
R142	ERJ3GEYJ682V	6.8K 1/16W	[M]
R143	ERJ3GEYJ223V	22K 1/16W	[M]
R144	ERJ3GEYJ121V	120 1/16W	[M]
R145	ERJ3GEYJ104V	100K 1/16W	[M]
R146	ERJ3GEYJ104V	100K 1/16W	[M]
R151	ERJ3GEYJ820V	82 1/16W	[M]
R152	ERJ3GEY0R00V	0 1/16W	[M]
R201	ERJ3GEYJ103V	10K 1/16W	[M]
R202	ERJ3GEYJ332V	3.3K 1/16W	[M]
R203	ERJ3GEYJ102V	1K 1/16W	[M]
R204	ERJ3GEYJ473V	47K 1/16W	[M]
R205	ERJ3GEYJ102V	1K 1/16W	[M]
R206	ERJ3GEYJ473V	47K 1/16W	[M]
R207	ERJ3GEYJ820V	82 1/16W	[M]
R208	ERJ3GEYJ562V	5.6K 1/16W	[M]
R209	ERJ3GEYJ104V	100K 1/16W	[M]
R210	ERJ3GEYJ822V	8.2K 1/16W	[M]
R211	ERJ3GEYJ823V	82K 1/16W	[M]
R219	ERJ3GEYJ562V	5.6K 1/16W	[M]
R220	ERJ3GEYJ222V	2.2K 1/16W	[M]
R221	ERJ3GEYJ562V	5.6K 1/16W	[M]
R222	ERJ3GEYJ472V	4.7K 1/16W	[M]
R223	ERJ3GEYJ473V	47K 1/16W	[M]
R224	ERJ3GEYJ302V	3K 1/16W	[M]
R225	ERJ3GEYJ563V	56K 1/16W	[M]
R226	ERJ3GEYJ222V	2.2K 1/16W	[M]
R227	ERJ3GEYJ472V	4.7K 1/16W	[M]
R228	ERJ3GEYJ104V	100K 1/16W	[M]
R229	ERJ3GEYJ102V	1K 1/16W	[M]
R230	ERJ3GEYJ153V	15K 1/16W	[M]
R231	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R232	ERJ3GEYJ104V	100K 1/16W	[M]
R233	ERJ3GEYJ102V	1K 1/16W	[M]
R234	ERJ3GEYJ330V	33 1/16W	[M]
R235	ERJ3GEYJ330V	33 1/16W	[M]
R236	ERJ3GEYJ330V	33 1/16W	[M]
R237	ERJ3GEYJ330V	33 1/16W	[M]
R238	ERJ3GEYJ181V	180 1/16W	[M]
R240	ERJ3GEYJ823V	82K 1/16W	[M]
R241	ERJ3GEYJ123V	12K 1/16W	[M]
R246	ERJ3GEY0R00V	0 1/16W	[M]
R248	ERJ3GEYJ274V	270K 1/16W	[M]
R249	ERJ3GEYJ471V	470 1/16W	[M]
R250	ERJ3GEYJ332V	3.3K 1/16W	[M]
R262	ERJ3GEYJ472V	4.7K 1/16W	[M]
R263	ERJ3GEYJ124V	120K 1/16W	[M]
R264	ERDS1FVJ100T	10 1/2W	[M]
R265	ERJ3GEYJ561V	560 1/16W	[M]
R270	ERJ3GEYJ393V	39K 1/16W	[M]
R271	ERJ3GEYJ153V	15K 1/16W	[M]
R302	ERJ3GEYJ472V	4.7K 1/16W	[M]
R303	ERJ3GEYJ103V	10K 1/16W	[M]
R304	ERJ3GEYJ222V	2.2K 1/16W	[M]
R305	ERJ3GEYJ222V	2.2K 1/16W	[M]
R307	ERJ3GEYJ473V	47K 1/16W	[M]
R308	ERJ3GEYJ473V	47K 1/16W	[M]
R309	ERJ3GEYJ223V	22K 1/16W	[M]
R310	ERJ3GEYJ123V	12K 1/16W	[M]
R311	ERJ3GEYJ103V	10K 1/16W	[M]
R312	ERJ3GEYJ221V	220 1/16W	[M]
R313	ERJ3GEYJ223V	22K 1/16W	[M]
R314	ERJ3GEYJ123V	12K 1/16W	[M]
R315	ERJ3GEYJ103V	10K 1/16W	[M]
R316	ERJ3GEYJ103V	10K 1/16W	[M]
R317	ERJ3GEYJ102V	1K 1/16W	[M]
R318	ERJ3GEYJ101V	100 1/16W	[M]
R319	ERJ3GEYJ101V	100 1/16W	[M]
R320	ERJ3GEYJ101V	100 1/16W	[M]
R321	ERJ3GEYJ104V	100K 1/16W	[M]
R322	ERJ3GEYJ104V	100K 1/16W	[M]
R323	ERJ3GEYJ104V	100K 1/16W	[M]
R324	ERJ3GEYJ562V	5.6K 1/16W	[M]
R325	ERJ3GEYJ562V	5.6K 1/16W	[M]
R326	ERJ3GEYJ562V	5.6K 1/16W	[M]
R327	ERJ3GEYJ562V	5.6K 1/16W	[M]
R328	ERJ3GEYJ472V	4.7K 1/16W	[M]
R329	ERJ3GEYJ103V	10K 1/16W	[M]
R330	ERJ3GEYJ103V	10K 1/16W	[M]
R331	ERJ3GEYJ103V	10K 1/16W	[M]
R332	ERJ3GEYJ103V	10K 1/16W	[M]
R333	ERJ3GEYJ103V	10K 1/16W	[M]
R334	ERJ3GEYJ103V	10K 1/16W	[M]
R335	ERJ3GEYJ103V	10K 1/16W	[M]
R336	ERJ3GEYJ102V	1K 1/16W	[M]
R337	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R338	ERJ3GEY0R00V	0 1/16W	[M]
R339	ERJ3GEYJ333V	33K 1/16W	[M]
R340	ERDS1FVJ221T	220 1/2W	[M]
R341	ERJ3GEYJ391V	390 1/16W	[M]
R342	ERJ3GEYJ391V	390 1/16W	[M]
R343	ERJ3GEYJ473V	47K 1/16W	[M]
R344	ERJ3GEYJ103V	10K 1/16W	[M]
R345	ERJ3GEYJ473V	47K 1/16W	[M]
R346	ERDS1FVJ470T	47 1/2W	[M]
R347	ERDS1FVJ470T	47 1/2W	[M]
R348	ERJ3GEYJ104V	100K 1/16W	[M]
R349	ERJ3GEYJ221V	220 1/16W	[M]
R384	ERJ3GEY0R00V	0 1/16W	[M]
R385	ERDS1FVJ270T	27 1/2W	[M]
R386	ERJ3GEY0R00V	0 1/16W	[M]
R387	ERJ3GEY0R00V	0 1/16W	[M]
R388	ERDS1FVJ270T	27 1/2W	[M]
R389	ERJ3GEY0R00V	0 1/16W	[M]
R401	ERJ3GEYJ103V	10K 1/16W	[M]
R402	ERJ3GEYJ332V	3.3K 1/16W	[M]
R403	ERJ3GEYJ102V	1K 1/16W	[M]
R404	ERJ3GEYJ473V	47K 1/16W	[M]
R405	ERJ3GEYJ102V	1K 1/16W	[M]
R406	ERJ3GEYJ473V	47K 1/16W	[M]
R407	ERJ3GEYJ820V	82 1/16W	[M]
R408	ERJ3GEYJ562V	5.6K 1/16W	[M]
R409	ERJ3GEYJ104V	100K 1/16W	[M]
R410	ERJ3GEYJ822V	8.2K 1/16W	[M]
R411	ERJ3GEYJ823V	82K 1/16W	[M]
R412	ERJ3GEYJ334V	330K 1/16W	[M]
R413	ERJ3GEYJ104V	100K 1/16W	[M]
R414	ERJ3GEYJ272V	2.7K 1/16W	[M]
R415	ERJ3GEYJ101V	100 1/16W	[M]
R416	ERJ3GEYJ102V	1K 1/16W	[M]
R417	ERJ3GEYJ104V	100K 1/16W	[M]
R418	ERJ3GEYJ102V	1K 1/16W	[M]
R419	ERJ3GEYJ562V	5.6K 1/16W	[M]
R420	ERJ3GEYJ222V	2.2K 1/16W	[M]
R421	ERJ3GEYJ562V	5.6K 1/16W	[M]
R422	ERJ3GEYJ472V	4.7K 1/16W	[M]
R423	ERJ3GEYJ473V	47K 1/16W	[M]
R424	ERJ3GEYJ302V	3K 1/16W	[M]
R425	ERJ3GEYJ563V	56K 1/16W	[M]
R426	ERJ3GEYJ222V	2.2K 1/16W	[M]
R427	ERJ3GEYJ472V	4.7K 1/16W	[M]
R428	ERJ3GEYJ104V	100K 1/16W	[M]
R429	ERJ3GEYJ102V	1K 1/16W	[M]
R430	ERJ3GEYJ153V	15K 1/16W	[M]
R431	ERJ3GEYJ222V	2.2K 1/16W	[M]
R432	ERJ3GEYJ104V	100K 1/16W	[M]
R433	ERJ3GEYJ102V	1K 1/16W	[M]
R434	ERJ3GEYJ330V	33 1/16W	[M]
R435	ERJ3GEYJ330V	33 1/16W	[M]
R436	ERJ3GEYJ330V	33 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R437	ERJ3GEYJ330V	33 1/16W	[M]
R438	ERJ3GEYJ181V	180 1/16W	[M]
R440	ERJ3GEYJ823V	82K 1/16W	[M]
R441	ERJ3GEYJ123V	12K 1/16W	[M]
R446	ERJ3GEY0R00V	0 1/16W	[M]
R448	ERJ3GEYJ274V	270K 1/16W	[M]
R449	ERJ3GEYJ471V	470 1/16W	[M]
R450	ERJ3GEYJ332V	3.3K 1/16W	[M]
R461	ERJ3GEYJ333V	33K 1/16W	[M]
R462	ERJ3GEYJ472V	4.7K 1/16W	[M]
R463	ERJ3GEYJ184V	180K 1/16W	[M]
R464	ERDS1FVJ100T	10 1/2W	[M]
R465	ERJ3GEYJ561V	560 1/16W	[M]
R470	ERJ3GEYJ393V	39K 1/16W	[M]
R471	ERJ3GEYJ153V	15K 1/16W	[M]
R502	ERDS2TJ153T	15K 1/4W	[M]
R503	ERDS2TJ153T	15K 1/4W	[M]
R504	ERDS2TJ562T	5.6K 1/4W	[M]
R505	ERDS2TJ562T	5.6K 1/4W	[M]
R508	ERDS2TJ563T	56K 1/4W	[M]
R509	ERDS2TJ563T	56K 1/4W	[M]
R510	ERDS2TJ332T	3.3K 1/4W	[M]
R512	ERDS2TJ332T	3.3K 1/4W	[M]
R514	ERDS2TJ334T	330K 1/4W	[M]
R515	ERDS2TJ563T	56K 1/4W	[M]
R516	ERDS2TJ102T	1K 1/4W	[M]
R517	ERDS2TJ102T	1K 1/4W	[M]
R521	ERDS2TJ563T	56K 1/4W	[M]
R531	ERDS2TJ123T	12K 1/4W	[M]
R532	ERDS2TJ223T	22K 1/4W	[M]
R537	ERDS1FVJ2R7T	2.7 1/2W	[M]
R538	ERDS1FVJ2R7T	2.7 1/2W	[M]
R539	ERDS1FVJ2R7T	2.7 1/2W	[M]
R540	ERDS1FVJ2R7T	2.7 1/2W	[M]
R541	ERDS1FVJ2R7T	2.7 1/2W	[M]
R542	ERDS2TJ332T	3.3K 1/4W	[M]
R543	ERDS2TJ2R2T	2.2 1/4W	[M]
R545	ERDS2TJ222T	2.2K 1/4W	[M]
R546	ERDS2TJ151T	150 1/4W	[M]
R547	ERDS1FVJ270T	27 1/2W	[M]
R548	ERDS1FVJ150T	15 1/2W	[M]
R549	ERD2FCVG120T	12 1/4W	[M]
R550	ERDS1FVJ150T	15 1/2W	[M]
R552	ERDS2TJ332T	3.3K 1/4W	[M]
R553	ERDS2TJ101T	100 1/4W	[M]
R554	ERDS2TJ222T	2.2K 1/4W	[M]
R555	ERDS2TJ392T	3.9K 1/4W	[M]
R556	ERDS2TJ103T	10K 1/4W	[M]
R557	ERDS2TJ331T	330 1/4W	[M]
R558	ERDS2TJ2R2T	2.2 1/4W	[M]
R559	ERDS2TJ2R2T	2.2 1/4W	[M]
R560	ERDS2TJ2R2T	2.2 1/4W	[M]
R561	ERDS2TJ122T	1.2K 1/4W	[M]
R562	ERDS2TJ103T	10K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R563	ERDS2TJ331T	330 1/4W	[M]
R564	ERDS1FVJ331T	330 1/2W	[M]
R565	ERDS1FVJ331T	330 1/2W	[M]
R566	ERDS1FVJ331T	330 1/2W	[M]
R581	ERDS2TJ272T	2.7K 1/4W	[M]
R582	ERDS2TJ561T	560 1/4W	[M]
R583	ERDS2TJ272T	2.7K 1/4W	[M]
R584	ERDS2TJ103T	10K 1/4W	[M]
R586	ERDS2TJ471T	470 1/4W	[M]
R601	ERDS2TJ681T	680 1/4W	[M]
R602	ERDS2TJ106T	10M 1/4W	[M]
R603	ERDS2TJ334T	330K 1/4W	[M]
R604	ERDS2TJ472T	4.7K 1/4W	[M]
R605	ERDS2TJ472T	4.7K 1/4W	[M]
R606	ERDS2TJ103T	10K 1/4W	[M]
R607	ERDS2TJ223T	22K 1/4W	[M]
R608	ERDS2TJ471T	470 1/4W	[M]
R609	ERDS2TJ104T	100K 1/4W	[M]
R610	ERDS2TJ473T	47K 1/4W	[M]
R611	ERDS2TJ102T	1K 1/4W	[M]
R614	ERDS2TJ680T	68 1/4W	[M]
R615	ERDS2TJ680T	68 1/4W	[M]
R616	ERDS2TJ104T	100K 1/4W	[M]
R617	ERDS2TJ104T	100K 1/4W	[M]
R618	ERDS2TJ104T	100K 1/4W	[M]
R619	ERDS2TJ104T	100K 1/4W	[M]
R620	ERDS2TJ104T	100K 1/4W	[M]
R621	ERDS2TJ104T	100K 1/4W	[M]
R622	ERDS2TJ104T	100K 1/4W	[M]
R623	ERDS2TJ104T	100K 1/4W	[M]
R624	ERDS2TJ104T	100K 1/4W	[M]
R628	ERDS2TJ101T	100 1/4W	[M]
R629	ERDS2TJ101T	100 1/4W	[M]
R630	ERDS2TJ223T	22K 1/4W	[M]
R631	ERDS2TJ562T	5.6K 1/4W	[M]
R633	ERDS2TJ104T	100K 1/4W	[M]
R634	ERDS2TJ473T	47K 1/4W	[M]
R635	ERDS2TJ101T	100 1/4W	[M]
R636	ERDS2TJ101T	100 1/4W	[M]
R637	ERDS2TJ392T	3.9K 1/4W	[M]
R638	ERDS2TJ103T	10K 1/4W	[M]
R639	ERDS2TJ681T	680 1/4W	[M]
R640	ERDS2TJ102T	1K 1/4W	[M]
R641	ERDS2TJ223T	22K 1/4W	[M]
R642	ERDS2TJ101T	100 1/4W	[M]
R643	ERDS2TJ101T	100 1/4W	[M]
R644	ERDS2TJ101T	100 1/4W	[M]
R645	ERDS2TJ103T	10K 1/4W	[M]
R646	ERDS2TJ103T	10K 1/4W	[M]
R647	ERDS2TJ103T	10K 1/4W	[M]
R652	ERDS2TJ473T	47K 1/4W	[M]
R654	ERDS2TJ563T	56K 1/4W	[M]
R655	ERDS2TJ102T	1K 1/4W	[M]
R656	ERDS2TJ473T	47K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R657	ERDS2TJ473T	47K 1/4W	[M]
R658	ERDS2TJ102T	1K 1/4W	[M]
R659	ERDS2TJ473T	47K 1/4W	[M]
R660	ERDS2TJ473T	47K 1/4W	[M]
R663	ERDS2TJ223T	22K 1/4W	[M]
R664	ERDS2TJ223T	22K 1/4W	[M]
R665	ERDS2TJ472T	4.7K 1/4W	[M]
R673	ERDS2TJ104T	100K 1/4W	[M]
R674	ERDS2TJ332T	3.3K 1/4W	[M]
R675	ERDS2TJ102T	1K 1/4W	[M]
R676	ERDS2TJ102T	1K 1/4W	[M]
R677	ERDS2TJ102T	1K 1/4W	[M]
R678	ERDS2TJ122T	1.2K 1/4W	[M]
R679	ERDS2TJ182T	1.8K 1/4W	[M]
R680	ERDS2TJ222T	2.2K 1/4W	[M]
R681	ERDS2TJ272T	2.7K 1/4W	[M]
R682	ERDS2TJ472T	4.7K 1/4W	[M]
R683	ERDS2TJ103T	10K 1/4W	[M]
R684	ERDS2TJ103T	10K 1/4W	[M]
R698	ERDS2TJ682T	6.8K 1/4W	[M]
R699	ERDS2TJ470T	47 1/4W	[M]
R701	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R702	ERJ3GEYJ103V	10K 1/16W	[M]
R704	ERJ3GEYJ102V	1K 1/16W	[M]
R705	ERJ3GEYJ154V	150K 1/16W	[M]
R706	ERJ3GEYJ102V	1K 1/16W	[M]
R707	ERJ3GEYJ393V	39K 1/16W	[M]
R708	ERJ3GEYJ223V	22K 1/16W	[M]
R709	ERJ3GEYJ473V	47K 1/16W	[M]
R711	ERJ3GEYJ823V	82K 1/16W	[M]
R712	ERJ3GEYJ221V	220 1/16W	[M]
R714	ERJ3GEY0R00V	0 1/16W	[M]
R715	ERJ3GEYJ102V	1K 1/16W	[M]
R717	ERJ3GEYJ102V	1K 1/16W	[M]
R718	ERJ3GEYJ102V	1K 1/16W	[M]
R721	ERJ3GEYJ101V	100 1/16W	[M]
R723	ERJ3GEYJ682V	6.8K 1/16W	[M]
R724	ERJ6GEYJ183V	18K 1/10W	[M]
R725	ERJ3GEYJ391V	390 1/16W	[M]
R727	ERJ3GEYJ392V	3.9K 1/16W	[M]
R728	ERJ3GEYJ392V	3.9K 1/16W	[M]
R729	ERJ3GEYJ392V	3.9K 1/16W	[M]
R731	ERJ6GEYJ682V	6.8K 1/10W	[M]
R735	ERJ6GEYJ101V	100 1/10W	[M]
R736	ERJ3GEYJ101V	100 1/16W	[M]
R741	ERJ3GEYJ473V	47K 1/16W	[M]
R742	ERJ6GEYJ224V	220K 1/10W	[M]
R744	ERJ3GEYJ124V	120K 1/16W	[M]
R749	ERJ3GEYJ472V	4.7K 1/16W	[M]
R750	ERJ6GEYJ4R7V	4.7 1/10W	[M]
R753	ERJ3GEYJ100V	10 1/16W	[M]
R901	ERDS2TJ331T	330 1/4W	[M]
R902	ERDS2TJ331T	330 1/4W	[M]
R910	ERDS2TJ102T	1K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R911	ERDS2TJ102T	1K 1/4W	[M]
R912	ERDS2TJ122T	1.2K 1/4W	[M]
R913	ERDS2TJ182T	1.8K 1/4W	[M]
R914	ERDS2TJ102T	1K 1/4W	[M]
R915	ERDS2TJ102T	1K 1/4W	[M]
R916	ERDS2TJ122T	1.2K 1/4W	[M]
R917	ERDS2TJ182T	1.8K 1/4W	[M]
R918	ERDS2TJ222T	2.2K 1/4W	[M]
R919	ERDS2TJ272T	2.7K 1/4W	[M]
R920	ERDS2TJ472T	4.7K 1/4W	[M]
R921	ERDS2TJ103T	10K 1/4W	[M]
R922	ERDS2TJ271T	270 1/4W	[M]
R945	ERDS2TJ102T	1K 1/4W	[M]
R946	ERDS2TJ102T	1K 1/4W	[M]
R950	ERDS2TJ102T	1K 1/4W	[M]
R951	ERDS2TJ151T	150 1/4W	[M]
R952	ERDS1FVJ220T	22 1/2W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS1FVJ180T	18 1/2W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R954	ERDS1FVJ120T	12 1/2W	[M]
R958	ERD2FCVJ4R7T	4.7 1/4W	[M]
R959	ERDS2TJ472T	4.7K 1/4W	[M]
R960	ERDS2TJ151T	150 1/4W	[M]
R961	ERDS2TJ332T	3.3K 1/4W	[M]
R962	ERDS2TJ2R2T	2.2 1/4W	[M]
R964	ERC12UGK335D	3.3M 1/2W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R1001	ERJ3GEYJ1R0V	1 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1005	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1006	ERJ3GEYJ102V	1K 1/16W	[M]
R1007	ERD25FVJ4R7T	4.7 1/4W	[M]
R1009	ERJ3GEYJ183V	18K 1/16W	[M]
R1010	ERJ3GEYJ183V	18K 1/16W	[M]
R1011	ERJ3GEYJ103V	10K 1/16W	[M]
R1012	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1013	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1014	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1015	ERJ3GEYJ470V	47 1/16W	[M]
R1016	ERJ3GEYJ470V	47 1/16W	[M]
R1017	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1018	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1019	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1020	ERJ3GEYJ470V	47 1/16W	[M]
R1022	ERJ3GEYJ103V	10K 1/16W	[M]
R1024	ERJ3GEYJ563V	56K 1/16W	[M]
R1026	ERJ3GEYJ102V	1K 1/16W	[M]
R1027	ERJ3GEYJ104V	100K 1/16W	[M]
R1028	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1029	ERJ3GEYJ475V	4.7M 1/16W	[M]
R1030	ERJ3GEYJ101V	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1031	**ERJ3GEYJ273V**	**27K 1/16W**	**[M]**
R1032	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R1035	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R1036	**ERJ3GEYJ470V**	**47 1/16W**	**[M]**
R1037	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R1038	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R1039	**ERJ3GEYJ153V**	**15K 1/16W**	**[M]**
R1040	**ERJ3GEYJ563V**	**56K 1/16W**	**[M]**
R1045	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R1046	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R1047	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R1048	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R1049	**ERJ3GEYJ105V**	**1M 1/16W**	**[M]**
R1050	**ERJ3GEYJ105V**	**1M 1/16W**	**[M]**
R1051	**ERJ3GEYJ221V**	**220 1/16W**	**[M]**
R1052	**ERJ3GEYJ221V**	**220 1/16W**	**[M]**
R1053	**ERJ3GEYJ681V**	**680 1/16W**	**[M]**
R1054	**ERJ3GEYJ681V**	**680 1/16W**	**[M]**
R1055	**ERJ3GEYJ222V**	**2.2K 1/16W**	**[M]**
R1056	**ERJ3GEYJ221V**	**220 1/16W**	**[M]**
R1057	**ERJ3GEYJ222V**	**2.2K 1/16W**	**[M]**
R1058	**ERJ3GEYJ272V**	**2.7K 1/16W**	**[M]**
R1059	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R1060	**ERJ3GEYJ391V**	**390 1/16W**	**[M]**
R1061	**ERJ3GEYJ2R7V**	**2.7 1/16W**	**[M]**
R1062	**ERJ3GEYJ2R7V**	**2.7 1/16W**	**[M]**
R1063	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R1064	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R1065	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R1066	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R1075	**ERJ3GEYJ222V**	**2.2K 1/16W**	**[M]**
R1076	**ERJ3GEYJ222V**	**2.2K 1/16W**	**[M]**
R1079	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R1080	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R1084	**ERJ3GEYJ222V**	**2.2K 1/16W**	**[M]**
R1085	**ERJ3GEYJ473V**	**47K 1/16W**	**[M]**
R1086	**ERJ3GEYJ222V**	**2.2K 1/16W**	**[M]**
R1087	**ERJ3GEYJ473V**	**47K 1/16W**	**[M]**
R1088	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R1089	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R1090	**ERJ3GEYJ221V**	**220 1/16W**	**[M]**
R1091	**ERJ3GEYJ222V**	**2.2K 1/16W**	**[M]**
R1092	**ERJ3GEYJ222V**	**2.2K 1/16W**	**[M]**
R1093	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R1094	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R1095	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R1096	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R1097	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R1098	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R1099	**ERJ6GEY0R00V**	**0 1/10W**	**[M]**
R1100	**ERJ6GEY0R00V**	**0 1/10W**	**[M]**
R1101	**ERJ6GEY0R00V**	**0 1/10W**	**[M]**
R1102	**ERJ6GEY0R00V**	**0 1/10W**	**[M]**
R1103	**ERJ6GEY0R00V**	**0 1/10W**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
R1104	ERJ6GEY0R00V	0 1/10W	[M]
R1105	ERJ6GEY0R00V	0 1/10W	[M]
		CAPACITORS	
C1	ECBT1H5R6KC5	5.6P 50V	[M]
C1	ECEA1CKA101B	100 16V	[M]
C2	ECBT1E103ZF5	0.01 25V	[M]
C2	RCBS1H102KBY	1000P 50V	[M]
C3	ECBT1H2R2KC5	2.2P 50V	[M]
C4	ECBT1H181KB5	180P 50V	[M]
C5	ECBT1H5R6KC5	5.6P 50V	[M]
C6	ECBT1H3R3KC5	3.3P 50V	[M]
C7	ECBT1H4R7KC5	4.7P 50V	[M]
C8	ECBT1H3R3KC5	3.3P 50V	[M]
C9	ECBT1H2R2KC5	2.2P 50V	[M]
C10	ECBT1H180JC5	18P 50V	[M]
C11	RCBS1H102KBY	1000P 50V	[M]
C101	ECUV1E103KBV	0.01 25V	[M]
C102	ECEA1CKA100B	10 16V	[M]
C103	ECUV1E103KBV	0.01 25V	[M]
C104	ECUV1H102KBV	1000P 50V	[M]
C106	ECUV1E103KBV	0.01 25V	[M]
C107	ECUV1E473ZFV	0.047 25V	[M]
C108	ECUV1H080DCV	8P 50V	[M]
C109	ECUV1H102KBV	1000P 50V	[M]
C110	ECUV1E103KBV	0.01 25V	[M]
C111	ECEA1HKA4R7B	4.7 50V	[M]
C112	ECUV1E103KBV	0.01 25V	[M]
C113	ECUV1H102KBV	1000P 50V	[M]
C114	ECEA1HKA3R3B	3.3 50V	[M]
C115	ECEA1HKA4R7B	4.7 50V	[M]
C116	ECUV1C333KBV	0.033 16V	[M]
C117	ECUV1E103KBV	0.01 25V	[M]
C118	ECUV1E103KBV	0.01 25V	[M]
C119	ECQP2A681JZT	680P 100V	[M]
C120	ECEA1CKA100B	10 16V	[M]
C121	ECEA1HKAR47B	0.47 50V	[M]
C122	ECEA1HKA010B	1 50V	[M]
C123	ECEA1HKA010B	1 50V	[M]
C124	ECUV1H101KCV	100P 50V	[M]
C125	ECEA1CKA220B	22 16V	[M]
C126	ECUV1C105ZFN	10 16V	[M]
C127	ECEA1CKA220B	22 16V	[M]
C129	ECEA0JKA101B	100 6.3V	[M]
C130	ECEA0JKA101B	100 6.3V	[M]
C131	ECUV1H151JCV	150P 50V	[M]
C132	ECUV1H102KBV	1000P 50V	[M]
C133	ECUV1H270JCV	27P 50V	[M]
C134	ECUV1H270JCV	27P 50V	[M]
C136	ECUV1H102KBV	1000P 50V	[M]
C137	ECUV1H332KBV	3300P 50V	[M]
C138	ECUV1E103KBV	0.01 25V	[M]
C139	ECEA1HKA4R7B	4.7 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C141	ECEA1HKA010B	1 50V	[M]
C142	ECEA1HKA010B	1 50V	[M]
C143	ECUV1H682KBV	6800P 50V	[M]
C144	ECUV1H682KBV	6800P 50V	[M]
C147	ECUV1H102KBV	1000P 50V	[M]
C148	ECUV1E103KBV	0.01 25V	[M]
C149	ECUV1C104ZFV	0.1 16V	[M]
C201	ECUV1H681KBV	680P 50V	[M]
C202	ECUV1H101KCV	100P 50V	[M]
C203	ECUV1H152KBV	1500P 50V	[M]
C204	ECEA1CKA100B	10 16V	[M]
C209	ECEA1HKA2R2B	2.2 50V	[M]
C210	ECEA1HKA2R2B	2.2 50V	[M]
C211	ECEA1HKA2R2B	2.2 50V	[M]
C212	ECEA1HKA4R7B	4.7 50V	[M]
C214	ECEA1CKA100B	10 16V	[M]
C215	ECUV1C104KBV	0.1 16V	[M]
C216	ECEA1HKAR22B	0.22 50V	[M]
C217	ECEA1HKA0R1B	0.1 50V	[M]
C218	ECUVNA154KBV	0.15 10V	[M]
C219	ECUVNA154KBV	0.15 10V	[M]
C220	ECUV1H182KBV	1800P 50V	[M]
C221	ECEA1HKA2R2B	2.2 50V	[M]
C222	ECEA1CKA100B	10 16V	[M]
C224	ECUV1C823KBV	0.082 16V	[M]
C225	ECUV1H101KCV	100P 50V	[M]
C226	ECEA1HKAR68B	0.68 50V	[M]
C227	ECUV1H101KCV	100P 50V	[M]
C228	ECUV1H470JCV	47P 50V	[M]
C229	ECEA1CKA100B	10 16V	[M]
C230	ECEA1CKA100B	10 16V	[M]
C231	ECUV1H102KBV	1000P 50V	[M]
C232	ECEA1HKAR22B	0.22 50V	[M]
C233	ECUV1H102KBV	1000P 50V	[M]
C234	ECUV1H473KBV	0.047 50V	[M]
C235	ECUV1H473KBV	0.047 50V	[M]
C239	ECUV1H473KBV	0.047 50V	[M]
C240	ECUV1H473KBV	0.047 50V	[M]
C241	ECUV1C393KBV	0.039 16V	[M]
C242	ECUV1H822KBV	8200P 50V	[M]
C303	ECUV1H102KBV	1000P 50V	[M]
C304	ECUV1E103KBV	0.01 25V	[M]
C305	ECEA1CKA100B	10 16V	[M]
C306	ECEA1CKA100B	10 16V	[M]
C307	ECUV1H101KCV	100P 50V	[M]
C308	ECUV1H101KCV	100P 50V	[M]
C309	ECA1AM221B	220 10V	[M]
C310	ECEA1HKN4R7B	4.7 50V	[M]
C311	ECEA1CKA330B	33 16V	[M]
C312	ECUV1H102KBV	1000P 50V	[M]
C313	ECEA0JKA221B	220 6.3V	[M]
C314	ECEA1CKA330B	33 16V	[M]
C318	ECUV1E103KBV	0.01 25V	[M]
C319	ECUV1E103KBV	0.01 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C320	ECUV1C474ZFV	0.47 16V	[M]
C321	ECUV1H102KBV	1000P 50V	[M]
C322	ECUV1H102KBV	1000P 50V	[M]
C323	ECUV1H102KBV	1000P 50V	[M]
C324	ECUV1H101KCV	100P 50V	[M]
C325	ECUV1H101KCV	100P 50V	[M]
C326	ECUV1H101KCV	100P 50V	[M]
C333	ECKR1H102ZF5	1000P 50V	[M]
C336	ECUV1E103KBV	0.01 25V	[M]
C401	ECUV1H681KBV	680P 50V	[M]
C402	ECUV1H101KCV	100P 50V	[M]
C403	ECUV1H152KBV	1500P 50V	[M]
C404	ECEA1CKA100B	10 16V	[M]
C405	ECEA1HKA010B	1 50V	[M]
C406	ECEA1HKA010B	1 50V	[M]
C407	ECEA1HKAR22B	0.22 50V	[M]
C408	ECEA1CKA100B	10 16V	[M]
C409	ECEA1HKA2R2B	2.2 50V	[M]
C410	ECEA1HKA2R2B	2.2 50V	[M]
C411	ECEA1HKA2R2B	2.2 50V	[M]
C412	ECEA1HKA4R7B	4.7 50V	[M]
C414	ECEA1CKA100B	10 16V	[M]
C415	ECUV1C104KBV	0.1 16V	[M]
C416	ECEA1HKAR22B	0.22 50V	[M]
C417	ECEA1HKA0R1B	0.1 50V	[M]
C418	ECUVNA154KBV	0.15 10V	[M]
C419	ECUVNA154KBV	0.15 10V	[M]
C420	ECUV1H182KBV	1800P 50V	[M]
C421	ECEA1HKA2R2B	2.2 50V	[M]
C422	ECEA1CKA100B	10 16V	[M]
C424	ECUV1C823KBV	0.082 16V	[M]
C425	ECUV1H101KCV	100P 50V	[M]
C426	ECEA1HKAR68B	0.68 50V	[M]
C427	ECUV1H101KCV	100P 50V	[M]
C428	ECUV1H470JCV	47P 50V	[M]
C429	ECEA1CKA100B	10 16V	[M]
C430	ECEA1CKA100B	10 16V	[M]
C431	ECUV1H102KBV	1000P 50V	[M]
C432	ECEA1HKAR22B	0.22 50V	[M]
C433	ECUV1H102KBV	1000P 50V	[M]
C434	ECUV1H473KBV	0.047 50V	[M]
C435	ECUV1H473KBV	0.047 50V	[M]
C439	ECUV1H473KBV	0.047 50V	[M]
C440	ECUV1H473KBV	0.047 50V	[M]
C441	ECUV1C393KBV	0.039 16V	[M]
C442	ECUV1H822KBV	8200P 50V	[M]
C500	ECBT1H821KB5	820P 50V	[M]
C501	ECBT1H821KB5	820P 50V	[M]
C502	ECBT1H821KB5	820P 50V	[M]
C503	ECBT1H821KB5	820P 50V	[M]
C504	ECEA2AU100B	10 100V	[M]
C505	ECEA1HKAR68B	0.68 50V	[M]
C506	ECEA1HKAR68B	0.68 50V	[M]
C507	ECEA2AU100B	10 100V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C508	ECBT1H150J5	15P 50V	[M]
C509	ECBT1H150J5	15P 50V	[M]
C510	ECBT1H103KB5	0.01 50V	[M]
C511	ECBT1C682KR5	6800P 16V	[M]
C512	ECBT1C682KR5	6800P 16V	[M]
C516	ECQV1H184JL3	0.18 50V	[M]
C517	ECKR1H103MD5	0.01 50V	[M]
C518	ECA1EM101B	100 25V	[M]
C519	ECKR1H103MD5	0.01 50V	[M]
C522	ECKR1H103MD5	0.01 50V	[M]
C524	ECKR1H103MD5	0.01 50V	[M]
C525	ECEA1AKA330B	33 10V	[M]
C526	ECKR1H103MD5	0.01 50V	[M]
C527	ECEA1EKA330B	33 25V	[M]
C528	RCE1HM222B	2200P 50V	[M] ⚠
C529	RCE1HM222B	2200P 50V	[M] ⚠
C538	ECEA1EKA100B	10 25V	[M]
C539	ECEA1EKA100B	10 25V	[M]
C600	ECEA0JKA101B	100 6.3V	[M]
C601	ECBT1H104ZF5	0.1 50V	[M]
C602	ECBT1E103ZF5	0.01 25V	[M]
C603	ECBT1H331KB5	330P 50V	[M]
C604	RCE1AM102B	1000P 10V	[M]
C605	ECBT1H102KB5	1000P 50V	[M]
C606	ECBT1H561KB5	560P 50V	[M]
C607	ECBT1H561KB5	560P 50V	[M]
C608	ECBT1H561KB5	560P 50V	[M]
C609	ECBT1H561KB5	560P 50V	[M]
C610	ECBT1H561KB5	560P 50V	[M]
C611	ECBT1H561KB5	560P 50V	[M]
C612	ECBT1H561KB5	560P 50V	[M]
C613	ECBT1H561KB5	560P 50V	[M]
C614	ECBT1H561KB5	560P 50V	[M]
C615	ECBT1H561KB5	560P 50V	[M]
C616	ECBT1H561KB5	560P 50V	[M]
C617	ECBT1H561KB5	560P 50V	[M]
C618	ECBT1E103ZF5	0.01 25V	[M]
C619	ECEA1AKA220B	22 10V	[M]
C620	ECBT1H680J5	68P 50V	[M]
C621	ECBT1H680J5	68P 50V	[M]
C622	ECBT1H150JC5	15P 50V	[M]
C623	ECBT1H180JC5	18P 50V	[M]
C624	ECBT1H560J5	56P 50V	[M]
C625	ECBT1H102KB5	1000P 50V	[M]
C626	ECBT1H560J5	56P 50V	[M]
C627	ECBT1H102KB5	1000P 50V	[M]
C628	ECBT1E223ZF5	0.022 25V	[M]
C629	ECBT1H331KB5	330P 50V	[M]
C639	ECEA1HKA3R3B	3.3 50V	[M]
C640	ECEA1VKA220B	22 35V	[M]
C641	ECEA1VKA220B	22 35V	[M]
C642	ECBT1H101KB5	100P 50V	[M]
C643	ECBT1H101KB5	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C644	ECEA1HKA010B	1 50V	[M]
C645	ECEA1HKA2R2B	2.2 50V	[M]
C649	ECBT1H331KB5	330P 50V	[M]
C650	ECBT1H561KB5	560P 50V	[M]
C651	ECBT1H103KB5	0.01 50V	[M]
C652	ECBT1H103KB5	0.01 50V	[M]
C653	ECBT1H101KB5	100P 50V	[M]
C654	ECBT1H101KB5	100P 50V	[M]
C655	ECBT1H102KB5	1000P 50V	[M]
C656	ECBT1E103ZF5	0.01 25V	[M]
C657	ECKR1H103ZF5	0.01 50V	[M]
C658	ECEA1VKA4R7B	4.7 35V	[M]
C669	ECEA0JKA470B	47 6.3V	[M]
C670	ECBT1H473KB5	0.047 50V	[M]
C671	ECBT1E223ZF5	0.022 25V	[M]
C672	ECBT1E223ZF5	0.022 25V	[M]
C673	ECBT1H561KB5	560P 50V	[M]
C701	ECEA0JKA330I	33 6.3V	[M]
C702	ECUV1C104KBV	0.1 16V	[M]
C703	ECEA0JKA101I	100 6.3V	[M]
C704	ECUV1C104KBV	0.1 16V	[M]
C706	ECUV1H272KBV	2700P 50V	[M]
C707	ECUV1E273KBV	0.027 25V	[M]
C710	ECUV1H121KCV	120P 50V	[M]
C711	ECUV1C104ZFV	0.1 16V	[M]
C712	ECUV1C104ZFV	0.1 16V	[M]
C713	ECUV1C104KBV	0.1 16V	[M]
C714	ECEA0JKA101I	100 6.3V	[M]
C715	ECUV1H272KBV	2700P 50V	[M]
C716	ECUV1H821KBN	820P 50V	[M]
C717	ECUV1C104ZFV	0.1 16V	[M]
C718	ECUV1A224KBV	0.22 10V	[M]
C721	ECUV1H100DCV	10P 50V	[M]
C722	ECUV1H100DCV	10P 50V	[M]
C723	ECEA1AKA221I	220 10V	[M]
C724	ECUZ1E104MBN	0.1 25V	[M]
C725	ECUV1H102KBV	1000P 50V	[M]
C726	ECUV1H102KBV	1000P 50V	[M]
C727	ECA1HAK010XI	1 50V	[M]
C728	ECA1HAK010XI	1 50V	[M]
C730	ECUV1C104ZFV	0.1 16V	[M]
C731	ECEA0JKA221I	220 6.3V	[M]
C732	ECEA0JKA221I	220 6.3V	[M]
C733	ECUV1C104KBV	0.1 16V	[M]
C734	ECEA1AKA221I	220 10V	[M]
C735	ECUVNE104ZFN	0.1 25V	[M]
C736	ECUV1C104ZFV	0.1 16V	[M]
C737	ECUV1C104ZFV	0.1 16V	[M]
C738	ECUV1H103KBN	0.01 50V	[M]
C739	ECUV1H152KBV	1500P 50V	[M]
C742	ECUV1E273KBV	0.027 25V	[M]
C743	ECUV1C104ZFV	0.1 16V	[M]
C744	ECUV1H562KBV	5600P 50V	[M]
C745	ECUV1H102KBV	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C747	ECUV1H181KCV	180P 50V	[M]
C749	ECUV1H222KBV	2200P 50V	[M]
C750	ECUZ1E104MBN	0.1 25V	[M]
C751	ECUV1C104KBV	0.1 16V	[M]
C752	ECUV1H102KBV	1000P 50V	[M]
C753	ECUV1H471KBV	470P 50V	[M]
C754	ECUV1H471KBV	470P 50V	[M]
C950	RCA1CM102BT	1000P 16V	[M]
C951	RCA1CM102BT	1000P 16V	[M]
C952	ECKR1H103ZF5	0.01 50V	[M]
C953	ECKR1H103MD5	0.01 50V	[M]
C954	ECEA1AKA470B	47 10V	[M]
C955	ECQE1104KF3	0.1 100V	[M]
C956	ECKR1H103MD5	0.01 50V	[M]
C957	ECEA1JM101B	100 63V	[M] ⚠
C960	RCEA1E222B-S	2200P 25V	[M]
C961	ECA2AM100B	10 100V	[M]
C962	ECEA1HM101B	100 50V	[M]
C964	ECKR2H103ZF5	0.01 500V	[M]
C1001	ECUV1H103ZFV	0.01 50V	[M]
C1002	ECEA1HKN2R2B	2.2 50V	[M]
C1003	ECQP1152JZT	1500P 100V	[M]
C1006	ECEA1HKA010B	1 50V	[M]
C1007	ECQP2A472JZT	4700P 100V	[M]
C1008	ECEA1HKA010B	1 50V	[M]
C1009	ECEA1CKA470B	47 16V	[M]
C1010	ECA1EM101B	100 25V	[M]
C1011	ECQV1H473JL3	0.047 50V	[M]
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C1013	ECUV1H102KBV	1000P 50V	[M]
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C1017	ECUV1H222KBV	2200P 50V	[M]
C1018	ECUV1H103KBV	0.01 50V	[M]
C1019	ECUV1H102KBV	1000P 50V	[M]
C1020	ECUV1H471KBV	470P 50V	[M]
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C1023	ECUV1H102KBV	1000P 50V	[M]
C1026	ECEA0JKA470B	47 6.3V	[M]
C1027	ECUV1H102KBV	1000P 50V	[M]
C1030	ECEA1AKA101B	100 10V	[M]
C1031	ECEA1AKA101B	100 10V	[M]
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C1037	ECEA1HKA3R3B	3.3 50V	[M]
C1038	ECUV1H221KBV	220P 50V	[M]
C1039	ECUV1H221KBV	220P 50V	[M]
C1040	ECEA1CKA100B	10 16V	[M]
C1041	ECEA1CKA100B	10 16V	[M]

C1041	ECEA1CKA100B	10 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1042	ECEA1CKA220B	22 16V	[M]
C1043	ECEA1HKA4R7B	4.7 50V	[M]
C1044	ECEA1AKA330B	33 10V	[M]
C1045	ECEA1AKA220B	22 10V	[M]
C1046	ECEA1CKA221B	220 16V	[M]
C1047	ECEA1HKA010B	1 50V	[M]
C1048	ECEA1HKA010B	1 50V	[M]
C1049	ECUV1H102KBV	1000P 50V	[M]
C1050	ECUV1H102KBV	1000P 50V	[M]
C1051	ECEA1HKA010B	1 50V	[M]
C1052	ECEA1HKA010B	1 50V	[M]
C1053	ECEA1CKA221B	220 16V	[M]
C1054	ECEA1HKA3R3B	3.3 50V	[M]
C1055	ECEA1HKA0R1B	0.1 50V	[M]
C1059	ECUV1H101KCV	100P 50V	[M]
C1061	ECUV1H101KCV	100P 50V	[M]
C1062	ECUV1C104ZFV	0.1 16V	[M]
C1064	ECEA1HKA3R3B	3.3 50V	[M]
		CHIP JUMPER	
RJ701	ERJ6GEY0R00V	0 1/10W	[M]
RJ702	ERJ6GEY0R00V	0 1/10W	[M]
RJ704	ERJ6GEY0R00V	0 1/10W	[M]
RJ710	ERJ6GEY0R00V	0 1/10W	[M]
RJ712	ERJ6GEY0R00V	0 1/10W	[M]
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RJ724	ERJ3GEY0R00V	0 1/16W	[M]
RJ725	ERJ3GEY0R00V	0 1/16W	[M]
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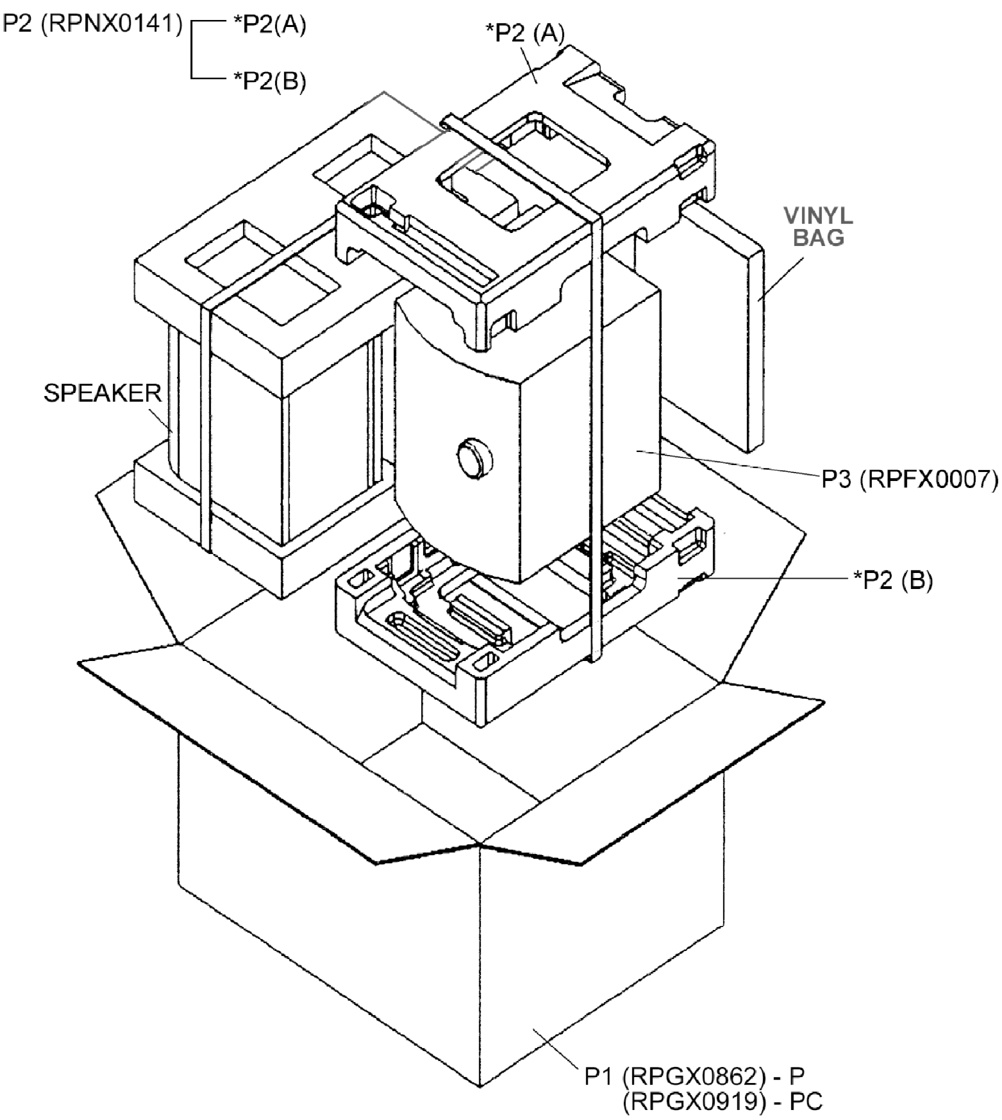
RJ739	ERJ3GEY0R00V	0 1/16W	[M]
RJ740	ERJ3GEY0R00V	0 1/16W	[M]
RJ741	ERJ3GEY0R00V	0 1/16W	[M]
RJ742	ERJ3GEY0R00V	0 1/16W	[M]
		TEST JUMPER	
TJ701	EYF8CU	TEST JUMPER	[M]

20.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX0862	PACKING CASE	[M]P
P1	RPGX0919	PACKING CASE	[M]PC
P2	RPNX0141	POLYFOAM	[M]
P3	RPFX0007	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	N2QAGB000016	REMOTE CONTROL	[M]
A1-1	BBN11M202A	R/C BATTERY COVER	[M]
A2	RJA0065-1D	AC CORD	[M] ⚠
A3	RQT6351-P	O/I BOOK	[M]
A3	RQT6352-M	O/I BOOK	[M]P
A3	RQT6353-C	O/I BOOK	[M]PC
A4	RSA0006-J	FM ANTENNA	[M]
A5	RSA0033	AM LOOP ANTENNA	[M]

20.6. Packaging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*P2(A)
*P2(B)
*P2 (A)
VINYL BAG
SPEAKER
P3 (RPFX0007)
*P2 (B)
P1 (RPGX0862) - P
(RPGX0919) - PC

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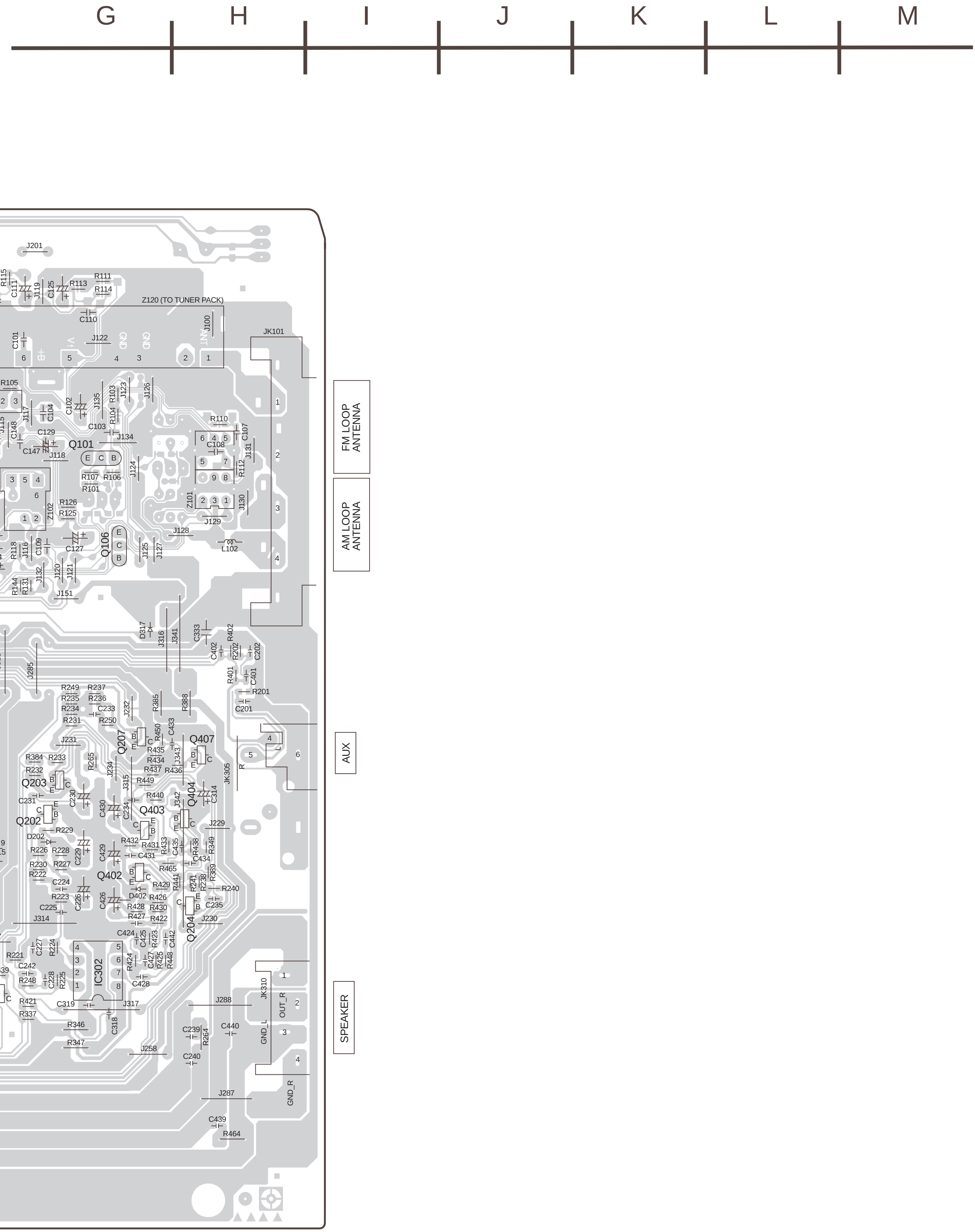
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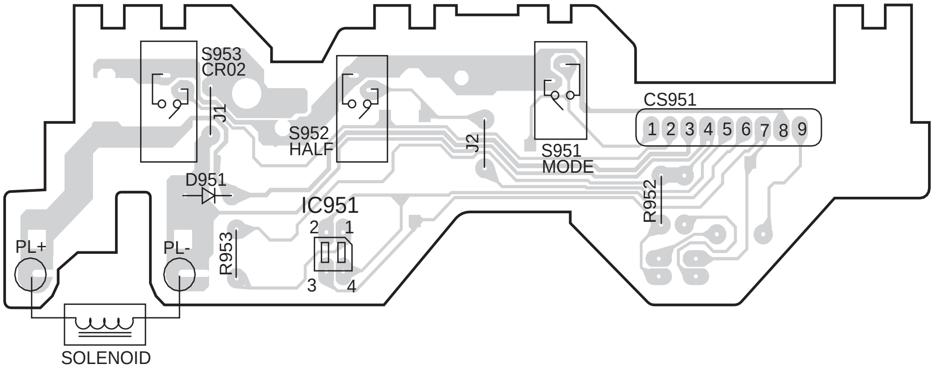
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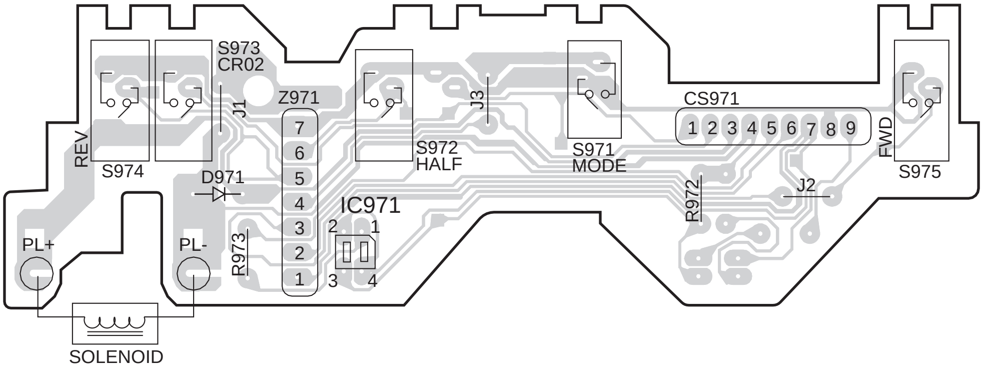
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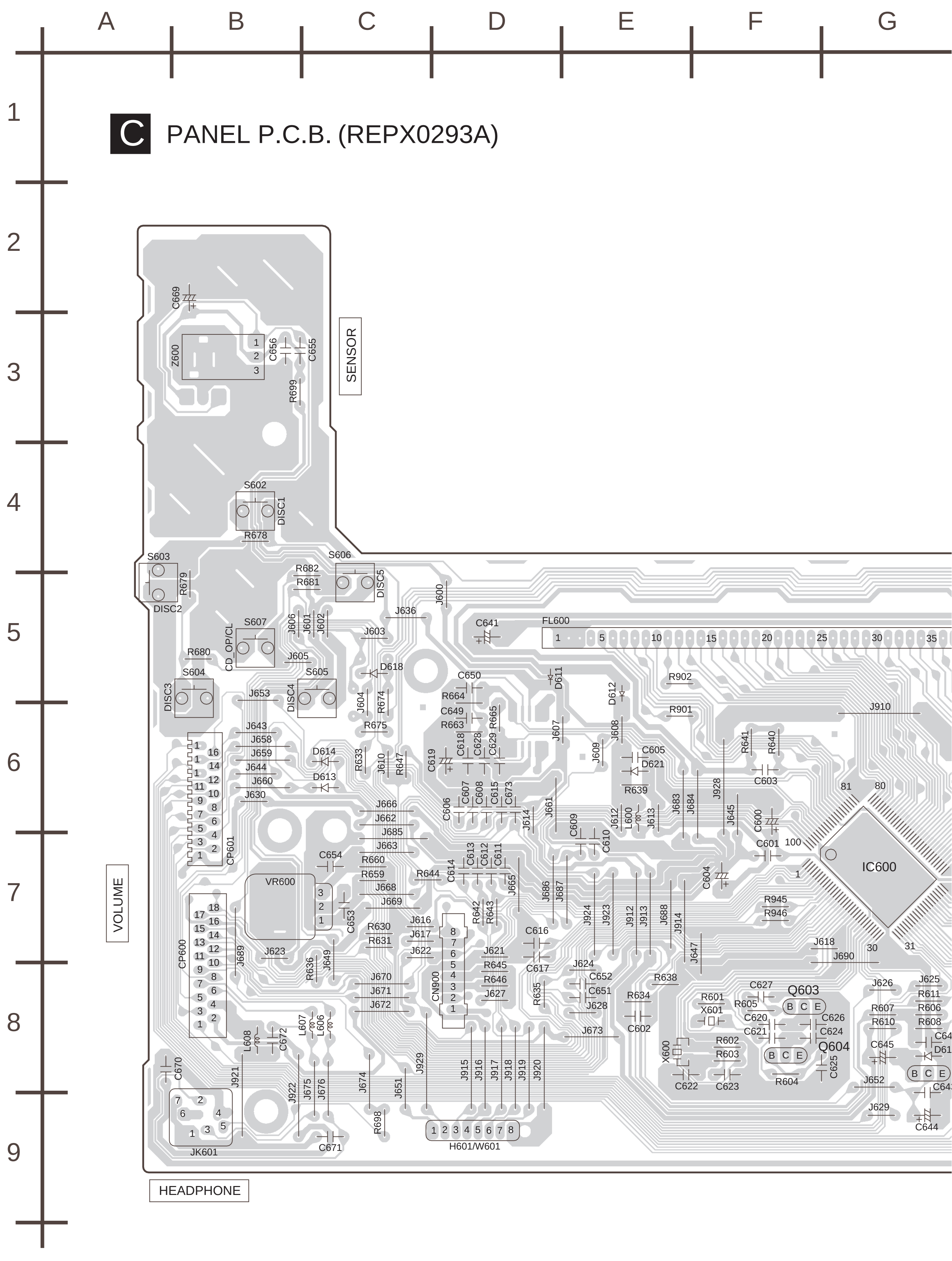
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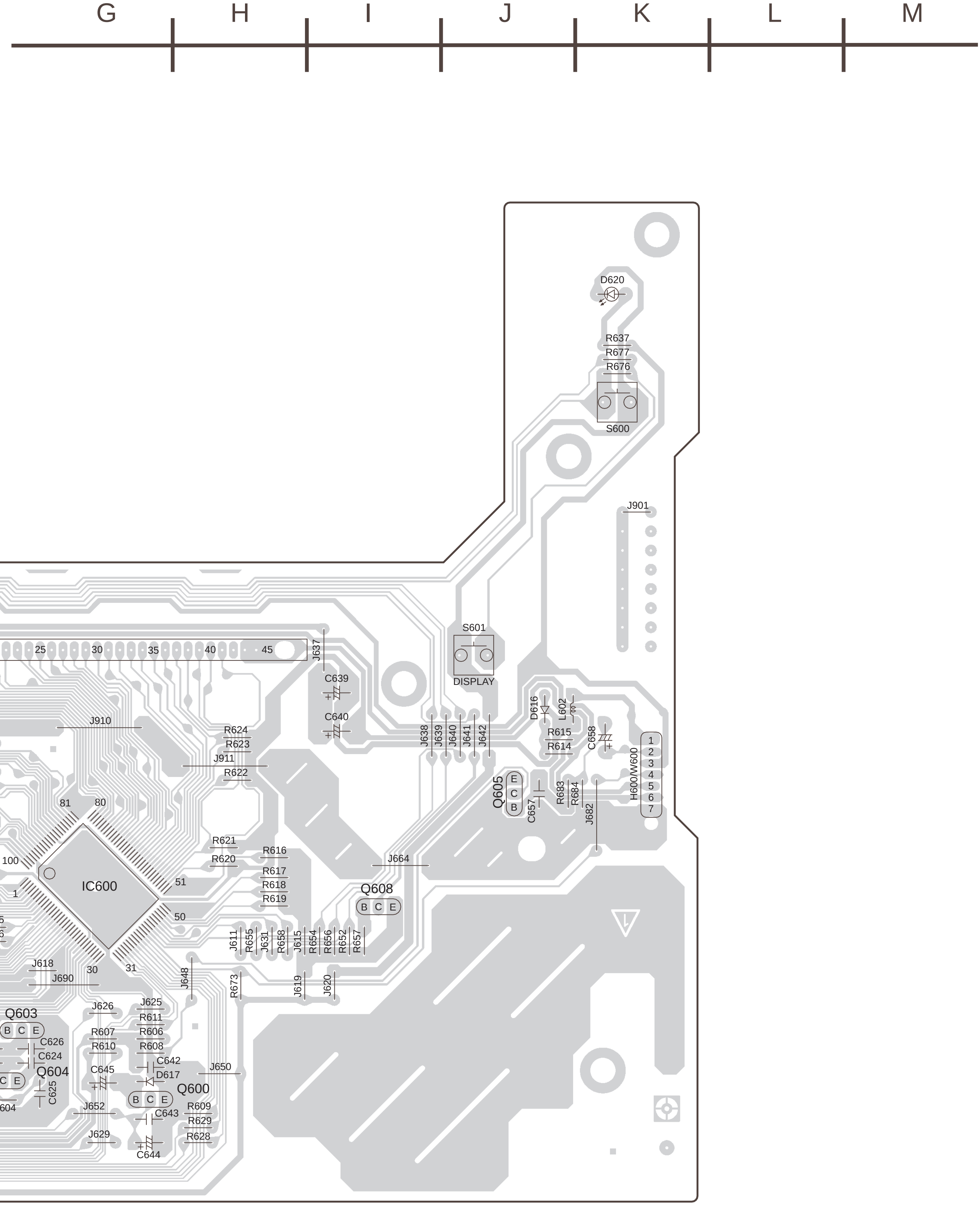
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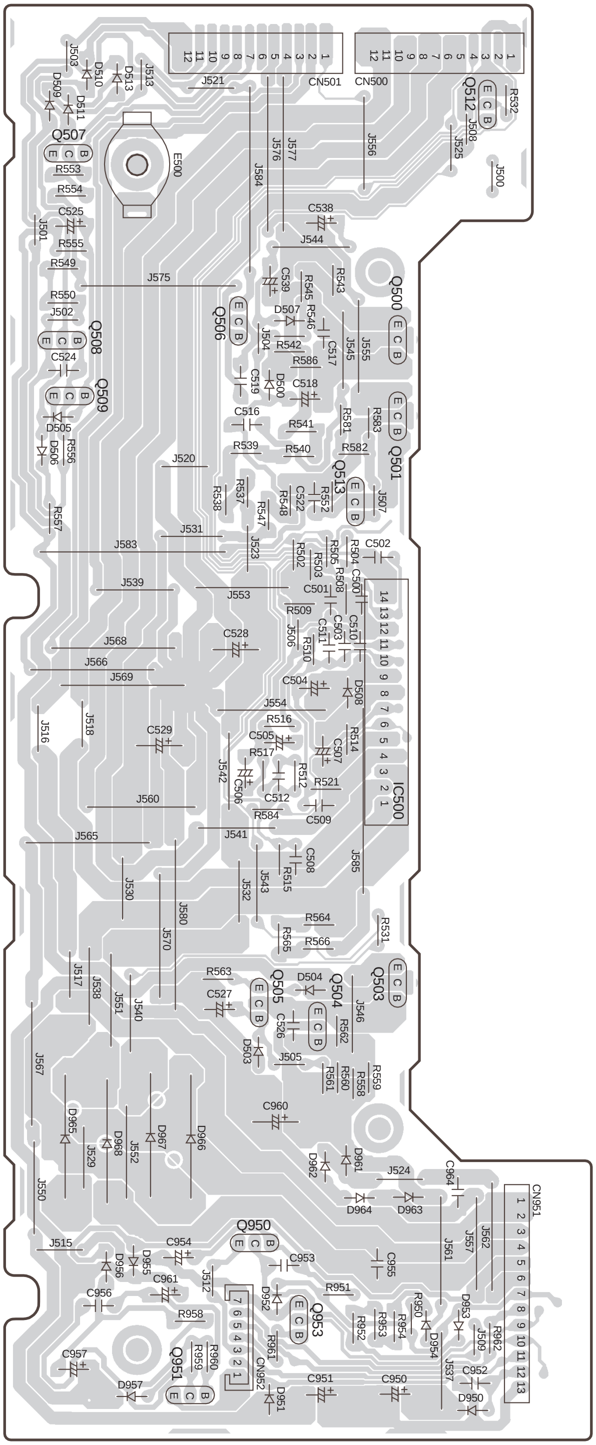
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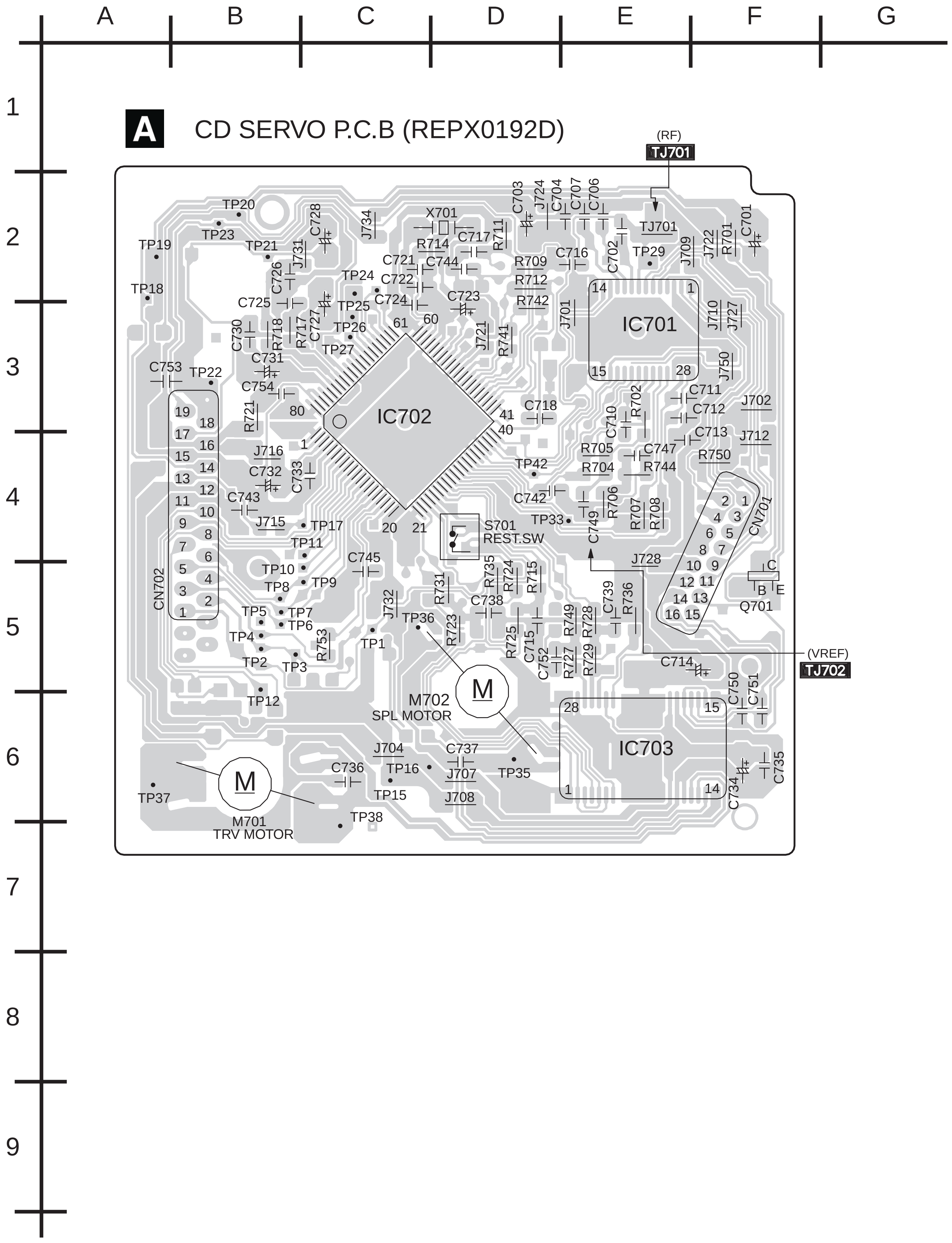
C505
R514
R517
C507
J542
C506
R512
R521
C512
J560
R584
C509
J541
J565
C508
R515
J543
J532
J530
J585
J580
R564
R531
J570
R566
R565
R563
Q505
E C B
D504
Q504
E C B
Q503
E C B
J517
J538
C527
J551
J540
C526
J546
R562
D503
J505
J567
R561
R560
R558
R559
C960
D965
D968
D967
D966
J529
J552
D962
D961
J524
C964
D964
D963
CN951
1 2 3 4 5 6 7 8 9 10 11 12 13
J550
J557
J562
J561
Q950
E C B
J515
C954
C953
C955
D956
D955
J512
C961
R951
D952
C956
Q953
E C B
R950
D953
CN952
7 6 5 4 3 2 1
R958
R952
R953
R954
D954
J509
R962
R961
R959
R960
Q951
E C B
C957
J537
C952
D957
C951
C950
D951
D950

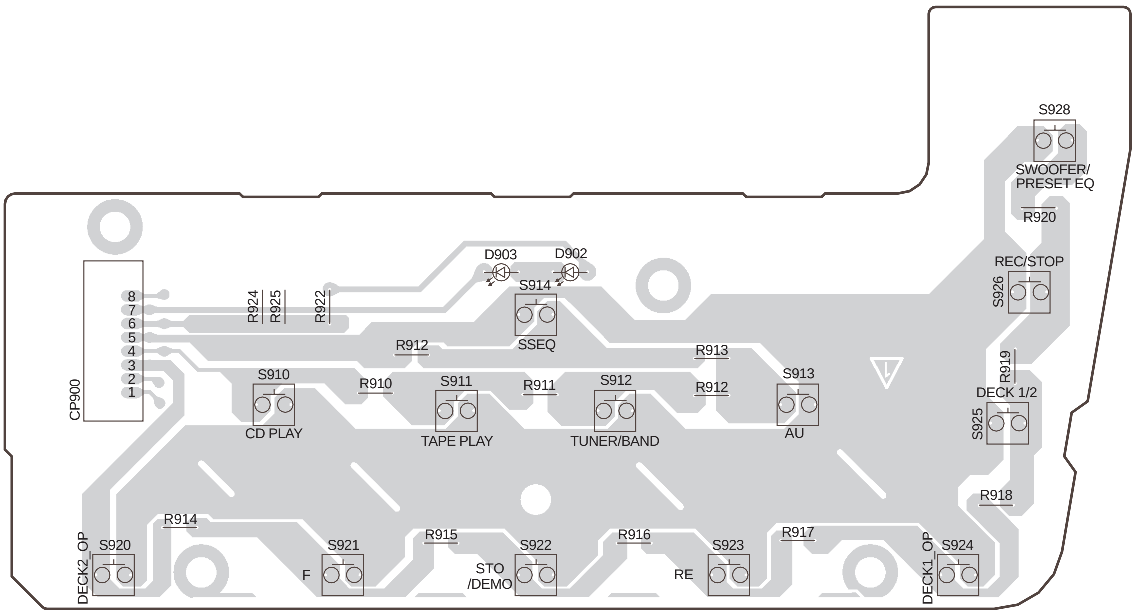
A CD SERVO P.C.B (REPX0192D)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
(RF)
TJ701
(VREF)
TJ702
TP20
TP23
TP19
TP21
TP18
C728
J731
C726
C725
J734
X701
R714
C717
R711
C703
J724
C704
C707
C706
TJ701
C702
TP29
J709
J722
R701
C701
C721
C744
C722
TP24
TP25
C724
C723
R709
R712
R742
C716
J701
14
1
IC701
15
28
J710
J727
J750
C730
R718
R717
C727
TP26
TP27
61
60
J721
R741
C753
TP22
C731
C754
80
R721
IC702
41
40
C718
C711
C712
C713
J702
J712
C710
R702
R705
R704
C747
R744
R750
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
CN702
J716
C732
C733
C743
J715
TP17
TP42
C742
TP33
C749
R706
R707
R708
20
21
S701
REST.SW
CN701
TP11
TP10
TP9
TP8
C745
J728
R735
R724
R715
R731
C739
R736
C
B
E
Q701
TP5
TP7
TP6
TP4
TP2
TP3
R753
TP1
J732
TP36
R723
C738
R725
C715
C752
R727
R749
R729
R728
C714
16
TP12
M702
SPL MOTOR
M
IC703
C750
C751
J704
C737
J707
J708
TP16
TP15
TP35
C736
TP37
M701
TRV MOTOR
TP38
C734
C735

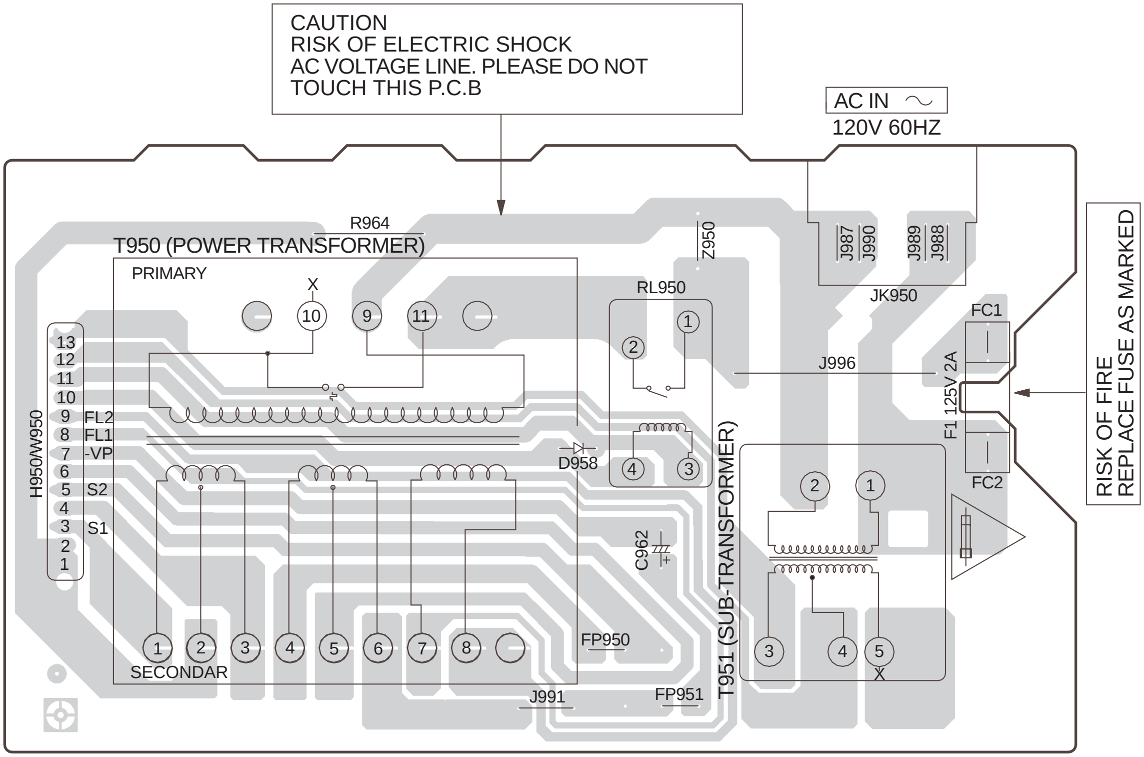
A B C D E F G

1 2 3 4 5 6 7 8 9

D TACT SWITCH P.C.B. (REPX0293A)


S928
SWOOFER/
PRESET EQ
R920
REC/STOP
S926
R919
DECK 1/2
S925
R918
D903
D902
S914
SSEQ
R912
R913
S913
AU
R912
S912
TUNER/BAND
R911
S911
TAPE PLAY
R910
S910
CD PLAY
R924
R925
R922
8
7
6
5
4
3
2
1
CP900
R914
S920
DECK2_OP
S921
F
R915
S922
STO
/DEMO
R916
S923
RE
R917
S924
DECK1_OP

I TRANSFORMER P.C.B. (REPX0294A)



CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT
TOUCH THIS P.C.B

AC IN ∼
120V 60HZ

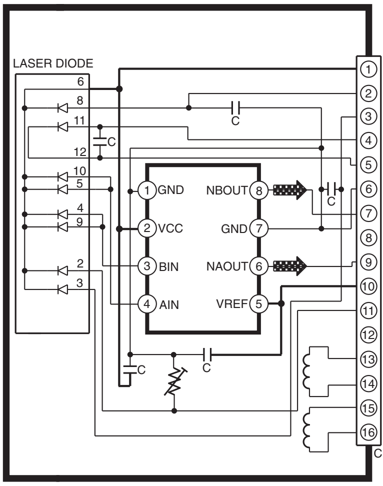
RISK OF FIRE
REPLACE FUSE AS MARKED

A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
R964
T950 (POWER TRANSFORMER)
PRIMARY
X
10
9
11
13
12
11
10
9
8
7
6
5
4
3
2
1
H950/W950
FL2
FL1
-VP
S2
S1
D958
1
2
3
4
5
6
7
8
SECONDAR
FP950
J991
FP951
Z950
RL950
1
2
4
3
J987
J990
J989
J988
JK950
J996
FC1
F1 125V 2A
FC2
C962
+
T951 (SUB-TRANSFORMER)
2
1
3
4
5
X

SCHEMATIC DIAGRAM -1

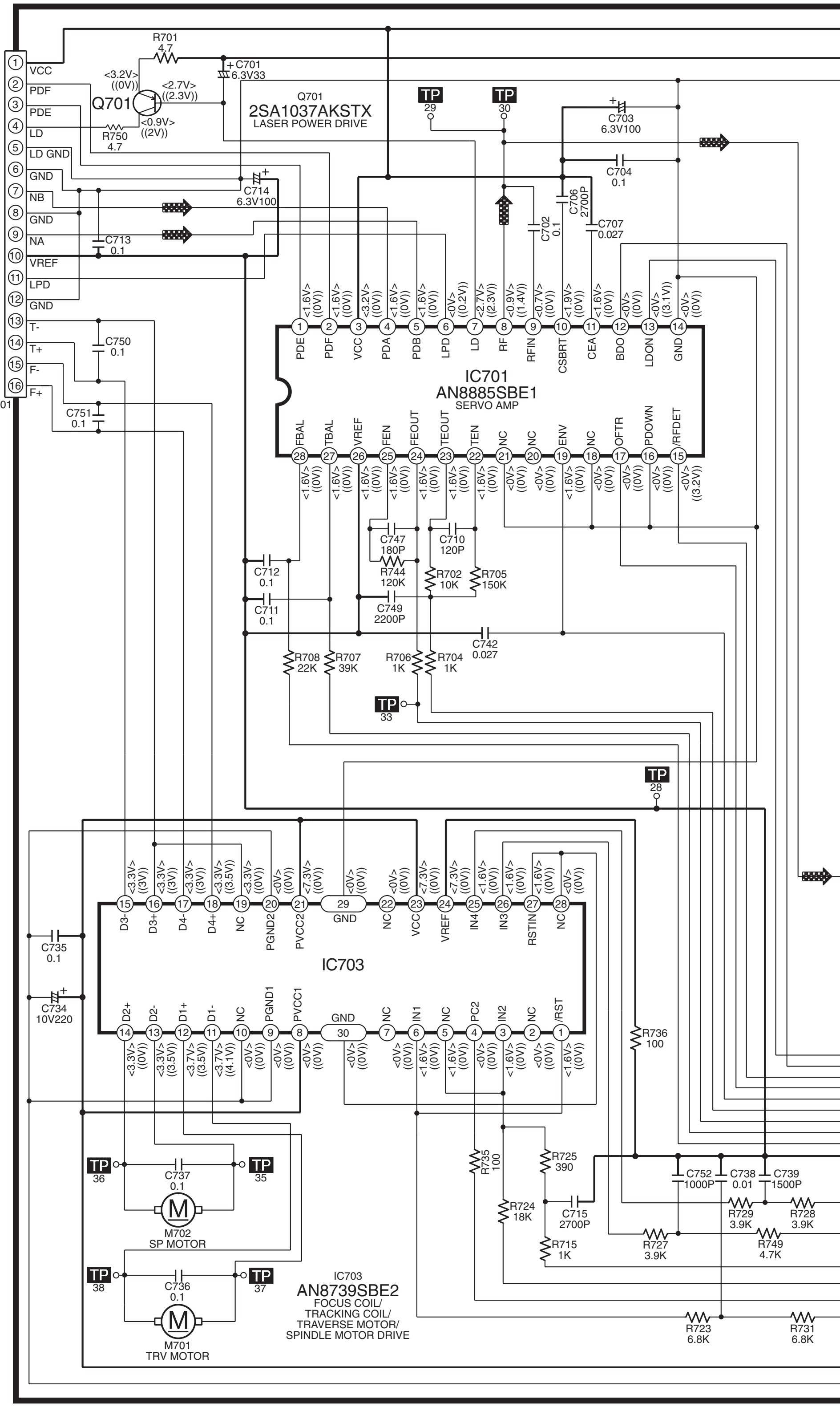
— : +B SIGNAL LINE ▨➡ : CD-DA SIGNAL LINE

OPTICAL PICKUP CIRCUIT



LASER DIODE
6
8
11
12
10
5
4
9
2
3
C
C
C
C
1 GND
2 VCC
3 BIN
4 AIN
NBOUT 8
GND 7
NAOUT 6
VREF 5
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
CN701

A CD SERVO CIRCUIT

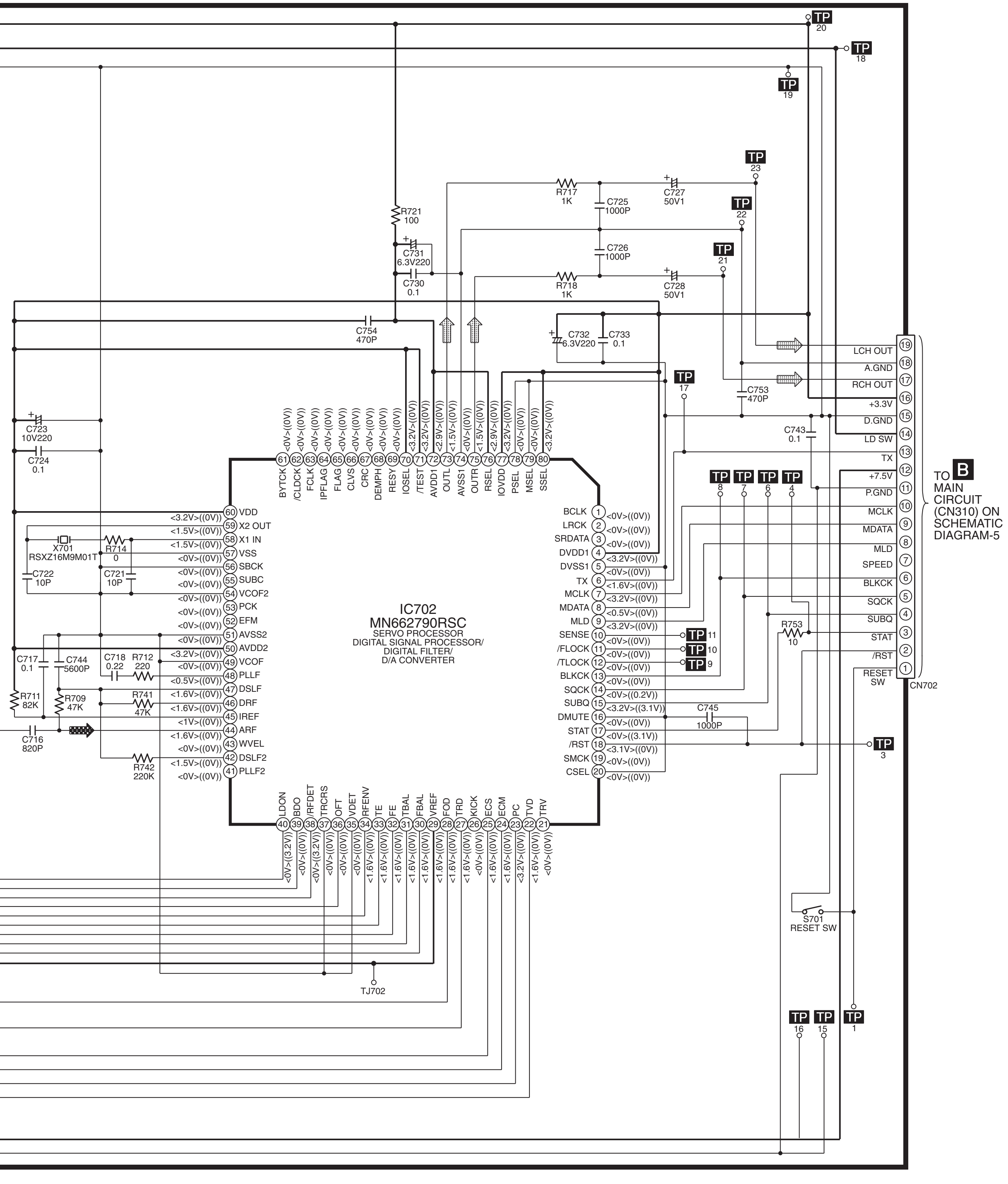


1 VCC
2 PDF
3 PDE
4 LD
5 LD GND
6 GND
7 NB
8 GND
9 NA
10 VREF
11 LPD
12 GND
13 T-
14 T+
15 F-
16 F+
R701
4.7
C701
6.3V33
<3.2V>
((0V))
<2.7V>
((2.3V))
<0.9V>
((2V))
Q701
R750
4.7
Q701
2SA1037AKSTX
LASER POWER DRIVE
TP 29
TP 30
C703
6.3V100
C704
0.1
C714
6.3V100
C713
0.1
C702
0.1
C706
2700P
C707
0.027
C750
0.1
C751
0.1
1 PDE
2 PDF
3 VCC
4 PDA
5 PDB
6 LPD
7 LD
8 RF
9 RFIN
10 CSBRT
11 CEA
12 BDO
13 LDON
14 GND
IC701
AN8885SBE1
SERVO AMP
28 FBAL
27 TBAL
26 VREF
25 FEN
24 FEOUT
23 TEOUT
22 TEN
21 NC
20 NC
19 ENV
18 NC
17 OFTR
16 PDOWN
15 /RFDET
C747
180P
R744
120K
C710
120P
R702
10K
R705
150K
C712
0.1
C711
0.1
C749
2200P
C742
0.027
R708
22K
R707
39K
R706
1K
R704
1K
TP 33
TP 28
15 D3-
16 D3+
17 D4-
18 D4+
19 NC
20 PGND2
21 PVCC2
29 GND
22 NC
23 VCC
24 VREF
25 IN4
26 IN3
27 RSTIN
28 NC
IC703
14 D2+
13 D2-
12 D1+
11 D1-
10 NC
9 PGND1
8 PVCC1
30 GND
7 NC
6 IN1
5 NC
4 PC2
3 IN2
2 NC
1 /RST
C735
0.1
C734
10V220
R736
100
TP 36
TP 35
C737
0.1
M702
SP MOTOR
TP 38
TP 37
C736
0.1
M701
TRV MOTOR
IC703
AN8739SBE2
FOCUS COIL/
TRACKING COIL/
TRAVERSE MOTOR/
SPINDLE MOTOR DRIVE
R735
100
R725
390
R724
18K
C715
2700P
R715
1K
C752
1000P
C738
0.01
C739
1500P
R729
3.9K
R728
3.9K
R727
3.9K
R749
4.7K
R723
6.8K
R731
6.8K

SCHEMATIC DIAGRAM - 2

—— : +B SIGNAL LINE ▨ : CD-DA SIGNAL LINE ⇨ : CD SIGNAL LINE

A CD SERVO CIRCUIT

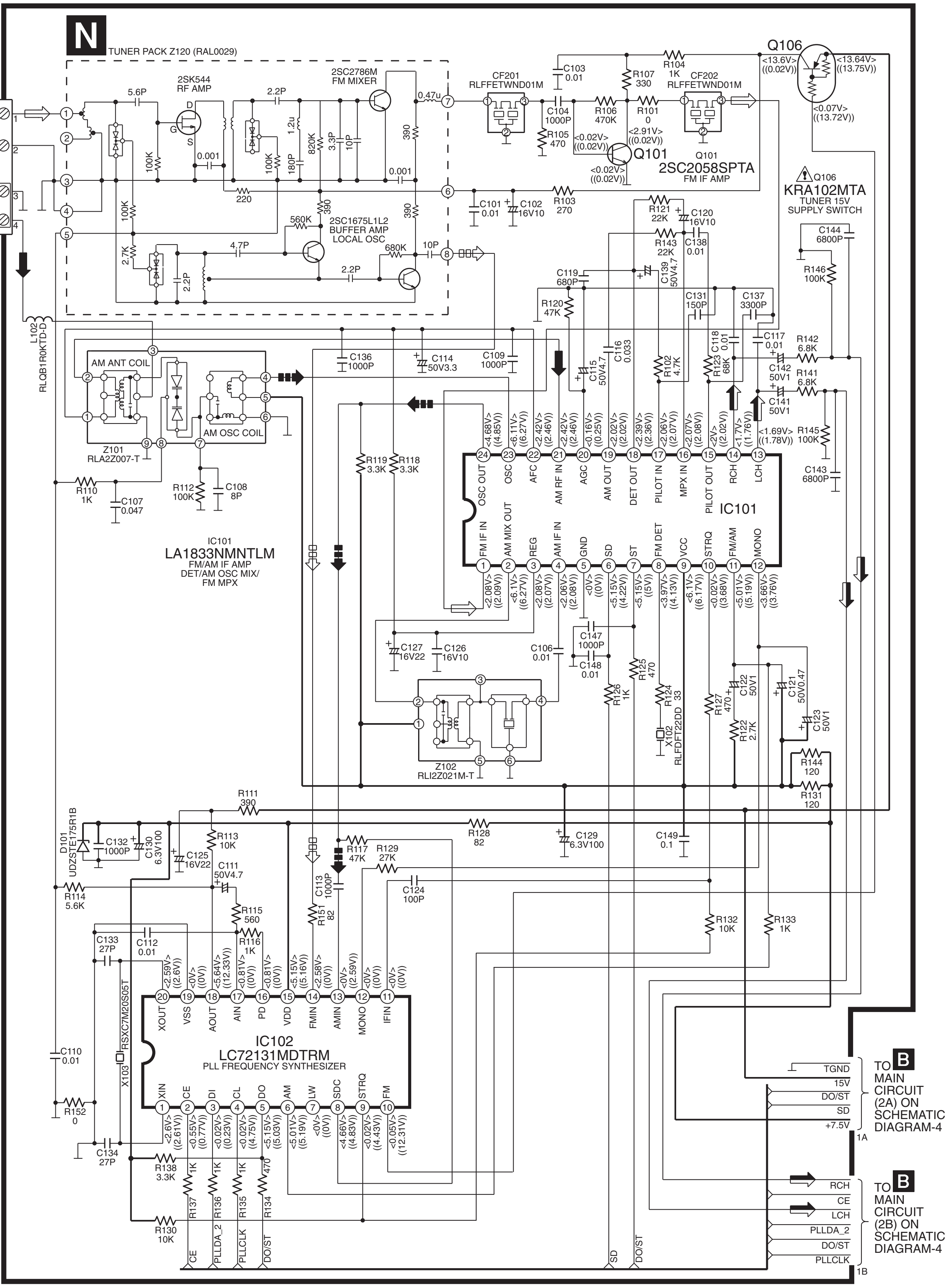


IC702
MN662790RSC
SERVO PROCESSOR
DIGITAL SIGNAL PROCESSOR/
DIGITAL FILTER/
D/A CONVERTER
TP 20
TP 18
TP 19
TP 23
TP 22
TP 21
TP 17
TP 11
TP 10
TP 9
TP 8
TP 7
TP 6
TP 4
TP 3
TP 16
TP 15
TP 1
R717 1K
C725 1000P
C727 50V1
C726 1000P
R718 1K
C728 50V1
R721 100
C731 6.3V220
C730 0.1
C754 470P
C732 6.3V220
C733 0.1
C753 470P
C743 0.1
C723 10V220
C724 0.1
X701 RSXZ16M9M01T
R714 0
C722 10P
C721 10P
C717 0.1
C744 5600P
C718 0.22
R712 220
R741 47K
R711 82K
R709 47K
C716 820P
R742 220K
R753 10
C745 1000P
S701 RESET SW
TJ702
CN702
LCH OUT 19
A.GND 18
RCH OUT 17
+3.3V 16
D.GND 15
LD SW 14
TX 13
+7.5V 12
P.GND 11
MCLK 10
MDATA 9
MLD 8
SPEED 7
BLKCK 6
SQCK 5
SUBQ 4
STAT 3
/RST 2
RESET SW 1
TO B MAIN CIRCUIT (CN310) ON SCHEMATIC DIAGRAM-5
61 BYTCK <0V>((0V))
62 /CLDCK <0V>((0V))
63 FCLK <0V>((0V))
64 IPFLAG <0V>((0V))
65 FLAG <0V>((0V))
66 CLVS <0V>((0V))
67 CRC <0V>((0V))
68 DEMPH <0V>((0V))
69 RESY <0V>((0V))
70 IOSEL <3.2V>((0V))
71 /TEST <3.2V>((0V))
72 AVDD1 <2.9V>((0V))
73 OUTL <1.5V>((0V))
74 AVSS1 <0V>((0V))
75 OUTR <1.5V>((0V))
76 RSEL <2.9V>((0V))
77 IOVDD <3.2V>((0V))
78 PSEL <0V>((0V))
79 MSEL <0V>((0V))
80 SSEL <3.2V>((0V))
1 BCLK <0V>((0V))
2 LRCK <0V>((0V))
3 SRDATA <0V>((0V))
4 DVDD1 <3.2V>((0V))
5 DVSS1 <0V>((0V))
6 TX <1.6V>((0V))
7 MCLK <3.2V>((0V))
8 MDATA <0.5V>((0V))
9 MLD <3.2V>((0V))
10 SENSE <0V>((0V))
11 /FLOCK <0V>((0V))
12 /TLOCK <0V>((0V))
13 BLKCK <0V>((0V))
14 SQCK <0V>((0.2V))
15 SUBQ <3.2V>((3.1V))
16 DMUTE <0V>((0V))
17 STAT <0V>((3.1V))
18 /RST <3.1V>((0V))
19 SMCK <0V>((0V))
20 CSEL <0V>((0V))
60 VDD <3.2V>((0V))
59 X2 OUT <1.5V>((0V))
58 X1 IN <1.5V>((0V))
57 VSS <0V>((0V))
56 SBCK <0V>((0V))
55 SUBC <0V>((0V))
54 VCOF2 <0V>((0V))
53 PCK <0V>((0V))
52 EFM <0V>((0V))
51 AVSS2 <0V>((0V))
50 AVDD2 <3.2V>((0V))
49 VCOF <0V>((0V))
48 PLLF <0.5V>((0V))
47 DSLF <1.6V>((0V))
46 DRF <1.6V>((0V))
45 IREF <1V>((0V))
44 ARF <1.6V>((0V))
43 WVEL <0V>((0V))
42 DSLF2 <1.5V>((0V))
41 PLLF2 <0V>((0V))
40 LDON <0V>((3.2V))
39 BDO <0V>((0V))
38 /RFDET <0V>((3.2V))
37 TRCRS <0V>((0V))
36 OFT <0V>((0V))
35 VDET <0V>((0V))
34 RFENV <1.6V>((0V))
33 TE <1.6V>((0V))
32 FE <1.6V>((0V))
31 TBAL <1.6V>((0V))
30 FBAL <1.6V>((0V))
29 VREF <1.6V>((0V))
28 FOD <1.6V>((0V))
27 TRD <1.6V>((0V))
26 KICK <0V>((0V))
25 ECS <1.6V>((0V))
24 ECM <1.6V>((0V))
23 PC <3.2V>((0V))
22 TVD <1.6V>((0V))
21 TRV <0V>((0V))

SCHEMATIC DIAGRAM - 3

─── : +B SIGNAL LINE	⇨ : FM SIGNAL LINE	➡ : AM SIGNAL LINE
➡ : FM/AM SIGNAL LINE	▯▯⇨ : FM OSC SIGNAL LINE	▮▮➡ : AM OSC SIGNAL LINE

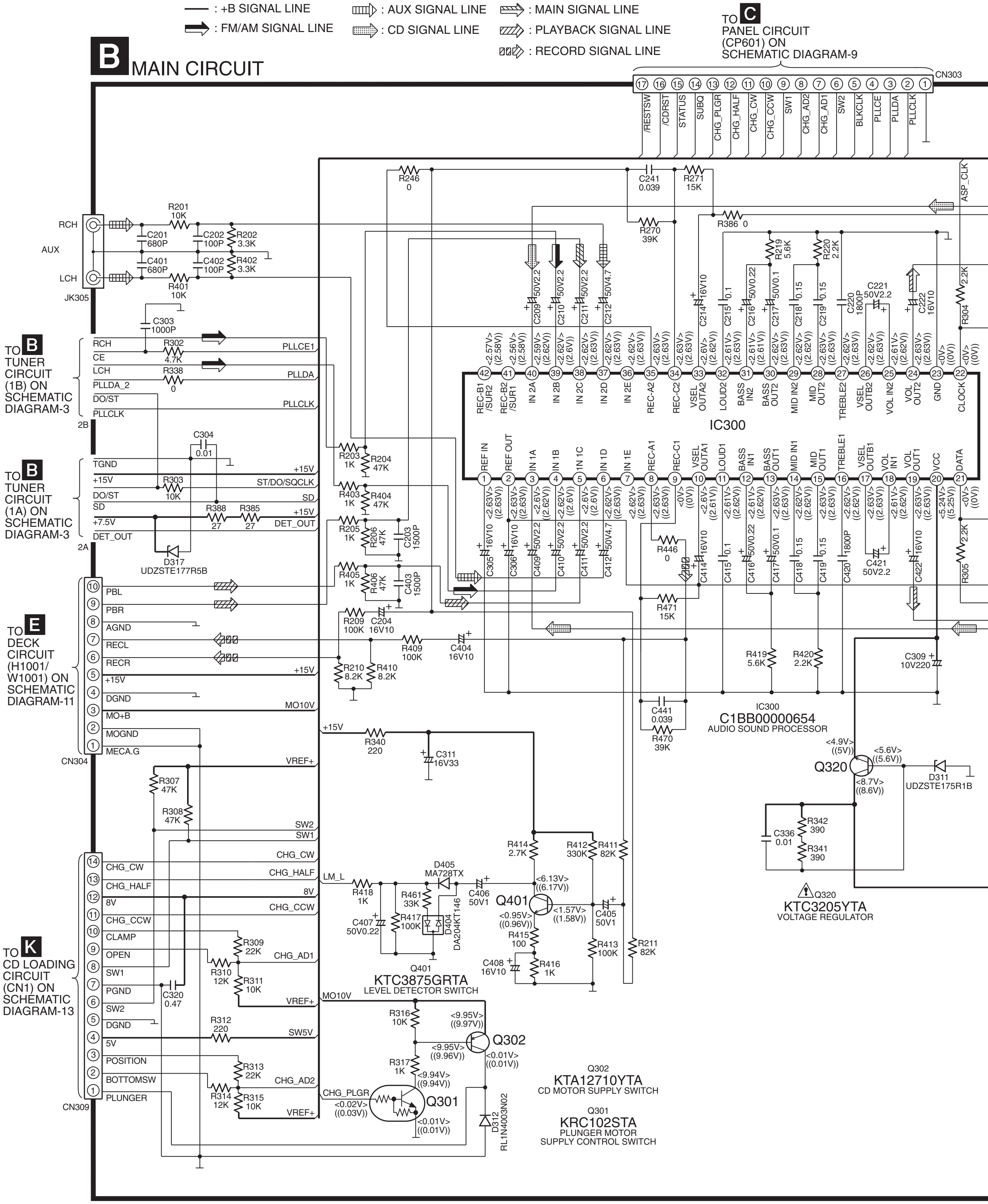
B TUNER/MAIN CIRCUIT



N
TUNER PACK Z120 (RAL0029)
FM EXT ANT
75 OHM
GND
AM LOOP ANT
AM EXT ANT
JK101
5.6P
2SK544
RF AMP
D
G
S
100K
0.001
2.2P
1.2u
180P
820K
3.3P
10P
100K
220
2SC2786M
FM MIXER
0.47u
390
0.001
390
560K
390
2SC1675L1L2
BUFFER AMP
LOCAL OSC
100K
2.7K
4.7P
2.2P
2.2P
680K
10P
CF201
RLFFETWND01M
C103
0.01
R104
1K
R107
330
CF202
RLFFETWND01M
Q106
<13.6V>
((0.02V))
<13.64V>
((13.75V))
<0.07V>
((13.72V))
C104
1000P
R106
470K
R101
0
R105
470
<0.02V>
((0.02V))
<2.91V>
((0.02V))
<0.02V>
((0.02V))
Q101
Q101
2SC2058SPTA
FM IF AMP
C101
0.01
C102
16V10
R103
270
Q106
KRA102MTA
TUNER 15V
SUPPLY SWITCH
R121
22K
C120
16V10
R143
22K
C138
0.01
C144
6800P
C119
680P
C139
50V4.7
R146
100K
R120
47K
C131
150P
C137
3300P
L102
RLQB1R0KTD-D
AM ANT COIL
C136
1000P
C114
50V3.3
C109
1000P
C115
50V4.7
C116
0.033
R102
4.7K
R123
68K
C118
0.01
C117
0.01
R142
6.8K
C142
50V1
R141
6.8K
C141
50V1
AM OSC COIL
Z101
RLA2Z007-T
R119
3.3K
R118
3.3K
R110
1K
C107
0.047
R112
100K
C108
8P
<4.68V>
((4.85V))
<6.11V>
((6.27V))
<2.42V>
((2.46V))
<2.42V>
((2.46V))
<0.16V>
((0.25V))
<2.02V>
((2.02V))
<2.39V>
((2.36V))
<2.06V>
((2.07V))
<2.07V>
((2.08V))
<2V>
((2.02V))
<1.7V>
((1.76V))
<1.69V>
((1.78V))
R145
100K
C143
6800P
OSC OUT
OSC
AFC
AM RF IN
AGC
AM OUT
DET OUT
PILOT IN
MPX IN
PILOT OUT
RCH
LCH
IC101
FM IF IN
AM MIX OUT
REG
AM IF IN
GND
SD
ST
FM DET
VCC
STRQ
FM/AM
MONO
IC101
LA1833NMNTLM
FM/AM IF AMP
DET/AM OSC MIX/
FM MPX
<2.08V>
((2.09V))
<6.1V>
((6.27V))
<2.08V>
((2.07V))
<2.06V>
((2.08V))
<0V>
((0V))
<5.15V>
((4.22V))
<5.15V>
((5V))
<3.97V>
((4.13V))
<6.1V>
((6.17V))
<0.02V>
((3.68V))
<5.01V>
((5.19V))
<3.66V>
((3.76V))
C127
16V22
C126
16V10
C106
0.01
C147
1000P
C148
0.01
R125
470
R126
1K
R124
33
X102
RLFDFT22DD
R127
470
C122
50V1
R122
2.7K
C121
50V0.47
C123
50V1
Z102
RLI2Z021M-T
R144
120
R131
120
R111
390
R128
82
C129
6.3V100
C149
0.1
D101
UDZSTE175R1B
C132
1000P
C130
6.3V100
R113
10K
C125
16V22
C111
50V4.7
R117
47K
R129
27K
C113
1000P
C124
100P
R114
5.6K
R115
560
R151
82
R132
10K
R133
1K
C133
27P
C112
0.01
R116
1K
<2.59V>
((2.6V))
<0V>
((0V))
<5.64V>
((12.33V))
<0.81V>
((0V))
<0.81V>
((0V))
<5.15V>
((5.16V))
<2.58V>
((0V))
<0V>
((2.59V))
<0V>
((0V))
<0V>
((0V))
XOUT
VSS
AOUT
AIN
PD
VDD
FMIN
AMIN
MONO
IFIN
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
XIN
CE
DI
CL
DO
AM
LW
SDC
STRQ
FM
RSXC7M20S05T
X103
C110
0.01
R152
0
C134
27P
<2.6V>
((2.61V))
<0.55V>
((0.77V))
<0.02V>
((0.23V))
<0.02V>
((4.75V))
<5.15V>
((5.03V))
<5.01V>
((5.19V))
<0V>
((0V))
<4.66V>
((4.83V))
<0.02V>
((4.43V))
<0.05V>
((12.31V))
R138
3.3K
R137
1K
R136
1K
R135
1K
R134
470
R130
10K
CE
PLLDA_2
PLLCLK
DO/ST
SD
DO/ST
TGND
15V
DO/ST
SD
+7.5V
1A
TO B MAIN CIRCUIT (2A) ON SCHEMATIC DIAGRAM-4
RCH
CE
LCH
PLLDA_2
DO/ST
PLLCLK
1B
TO B MAIN CIRCUIT (2B) ON SCHEMATIC DIAGRAM-4

SCHEMATIC DIAGRAM - 4

— : +B SIGNAL LINE
➡ : FM/AM SIGNAL LINE
▥⇨ : AUX SIGNAL LINE
▦⇨ : CD SIGNAL LINE
⇨ : MAIN SIGNAL LINE
▨⇨ : PLAYBACK SIGNAL LINE
▧⇨ : RECORD SIGNAL LINE

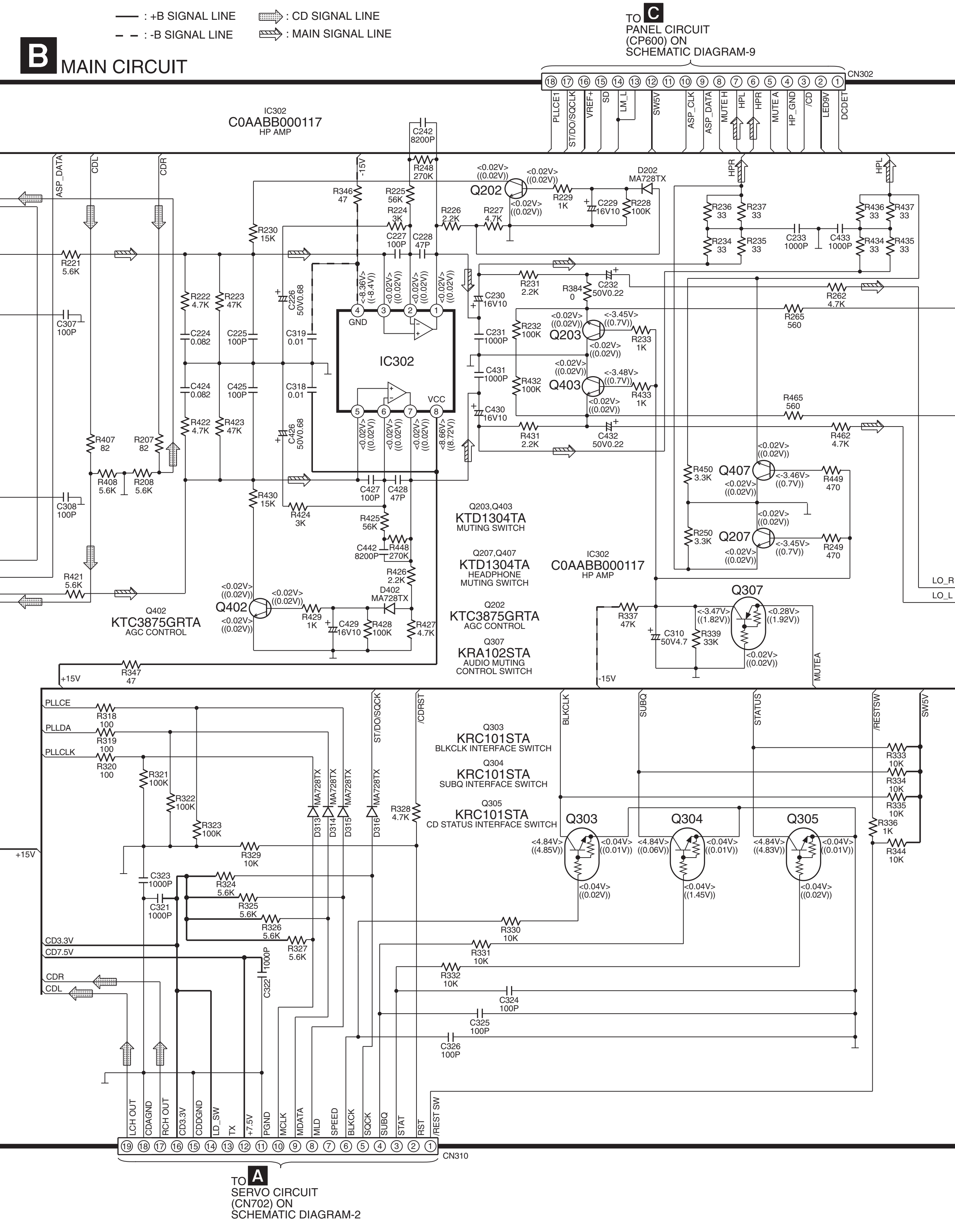


TO C
PANEL CIRCUIT
(CP601) ON
SCHEMATIC DIAGRAM-9
CN303
/RESTSW
/CDRST
STATUS
SUBQ
CHG_PLGR
CHG_HALF
CHG_CW
CHG_CCW
SW1
CHG_AD2
CHG_AD1
SW2
BLKCLK
PLLCE
PLLDA
PLLCLK
ASP_CLK
B MAIN CIRCUIT
RCH
AUX
LCH
JK305
R201 10K
C201 680P
C202 100P
R202 3.3K
C401 680P
C402 100P
R402 3.3K
R401 10K
C303 1000P
TO B
TUNER CIRCUIT (1B) ON SCHEMATIC DIAGRAM-3
RCH
CE
LCH
PLLDA_2
DO/ST
PLLCLK
R302 4.7K
R338 0
PLLCE1
PLLDA
PLLCLK
2B
C304 0.01
TO B
TUNER CIRCUIT (1A) ON SCHEMATIC DIAGRAM-3
TGND
+15V
DO/ST
SD
+7.5V
DET_OUT
R303 10K
R388 27
R385 27
ST/DO/SQCLK
SD
+15V
DET_OUT
2A
D317 UDZSTE177R5B
TO E
DECK CIRCUIT (H1001/ W1001) ON SCHEMATIC DIAGRAM-11
PBL
PBR
AGND
RECL
RECR
+15V
DGND
MO+B
MOGND
MECA.G
MO10V
CN304
R246 0
C241 0.039
R271 15K
R270 39K
R386 0
R219 5.6K
R220 2.2K
C209 50V2.2
C210 50V2.2
C211 50V2.2
C212 50V4.7
C214 16V10
C215 0.1
C216 50V0.22
C217 50V0.1
C218 0.15
C219 0.15
C220 1800P
C221 50V2.2
C222 16V10
R304 2.2K
IC300
REC-B1 /SUR2
REC-B2 /SUR1
IN 2A
IN 2B
IN 2C
IN 2D
IN 2E
REC-A2
REC-C2
VSEL OUTA2
LOUD2
BASS IN2
BASS OUT2
MID IN2
MID OUT2
TREBLE2
VSEL OUTB2
VOL IN2
VOL OUT2
GND
CLOCK
REF IN
REF OUT
IN 1A
IN 1B
IN 1C
IN 1D
IN 1E
REC-A1
REC-C1
VSEL OUTA1
LOUD1
BASS IN1
BASS OUT1
MID IN1
MID OUT1
TREBLE1
VSEL OUTB1
VOL IN1
VOL OUT1
VCC
DATA
R203 1K
R204 47K
R403 1K
R404 47K
R205 1K
R206 47K
C203 1500P
R405 1K
R406 47K
C403 1500P
R209 100K
C204 16V10
R409 100K
C404 16V10
R210 8.2K
R410 8.2K
C305 16V10
C306 16V10
C409 50V2.2
C410 50V2.2
C411 50V2.2
C412 50V4.7
R446 0
C414 16V10
C415 0.1
C416 50V0.22
C417 50V0.1
C418 0.15
C419 0.15
C420 1800P
C421 50V2.2
C422 16V10
R305 2.2K
R471 15K
R419 5.6K
R420 2.2K
C309 10V220
C441 0.039
R470 39K
IC300
C1BB00000654
AUDIO SOUND PROCESSOR
+15V
R340 220
C311 16V33
Q320
<4.9V> ((5V))
<5.6V> ((5.6V))
<8.7V> ((8.6V))
D311 UDZSTE175R1B
R342 390
C336 0.01
R341 390
Q320
KTC3205YTA
VOLTAGE REGULATOR
VREF+
R307 47K
R308 47K
SW2
SW1
CHG_CW
CHG_HALF
8V
CHG_CCW
CHG_AD1
VREF+
LM_L
TO K
CD LOADING CIRCUIT (CN1) ON SCHEMATIC DIAGRAM-13
CHG_CW
CHG_HALF
8V
CHG_CCW
CLAMP
OPEN
SW1
PGND
SW2
DGND
5V
POSITION
BOTTOMSW
PLUNGER
CN309
R309 22K
R310 12K
R311 10K
C320 0.47
R312 220
SW5V
R313 22K
R314 12K
R315 10K
CHG_AD2
CHG_PLGR
VREF+
MO10V
R414 2.7K
R412 330K
R411 82K
D405 MA728TX
R418 1K
R461 33K
R417 100K
D404 DA204KT146
C407 50V0.22
C406 50V1
Q401
<6.13V> ((6.17V))
<0.95V> ((0.96V))
<1.57V> ((1.58V))
C405 50V1
R415 100
C408 16V10
R416 1K
R413 100K
R211 82K
Q401
KTC3875GRTA
LEVEL DETECTOR SWITCH
R316 10K
<9.95V> ((9.97V))
<9.95V> ((9.96V))
Q302
<0.01V> ((0.01V))
R317 1K
<9.94V> ((9.94V))
Q301
<0.02V> ((0.03V))
<0.01V> ((0.01V))
D312 RL1N4003N02
Q302
KTA12710YTA
CD MOTOR SUPPLY SWITCH
Q301
KRC102STA
PLUNGER MOTOR SUPPLY CONTROL SWITCH

SCHEMATIC DIAGRAM - 5

—— : +B SIGNAL LINE
- - : -B SIGNAL LINE
⇨ : CD SIGNAL LINE
⇨ : MAIN SIGNAL LINE

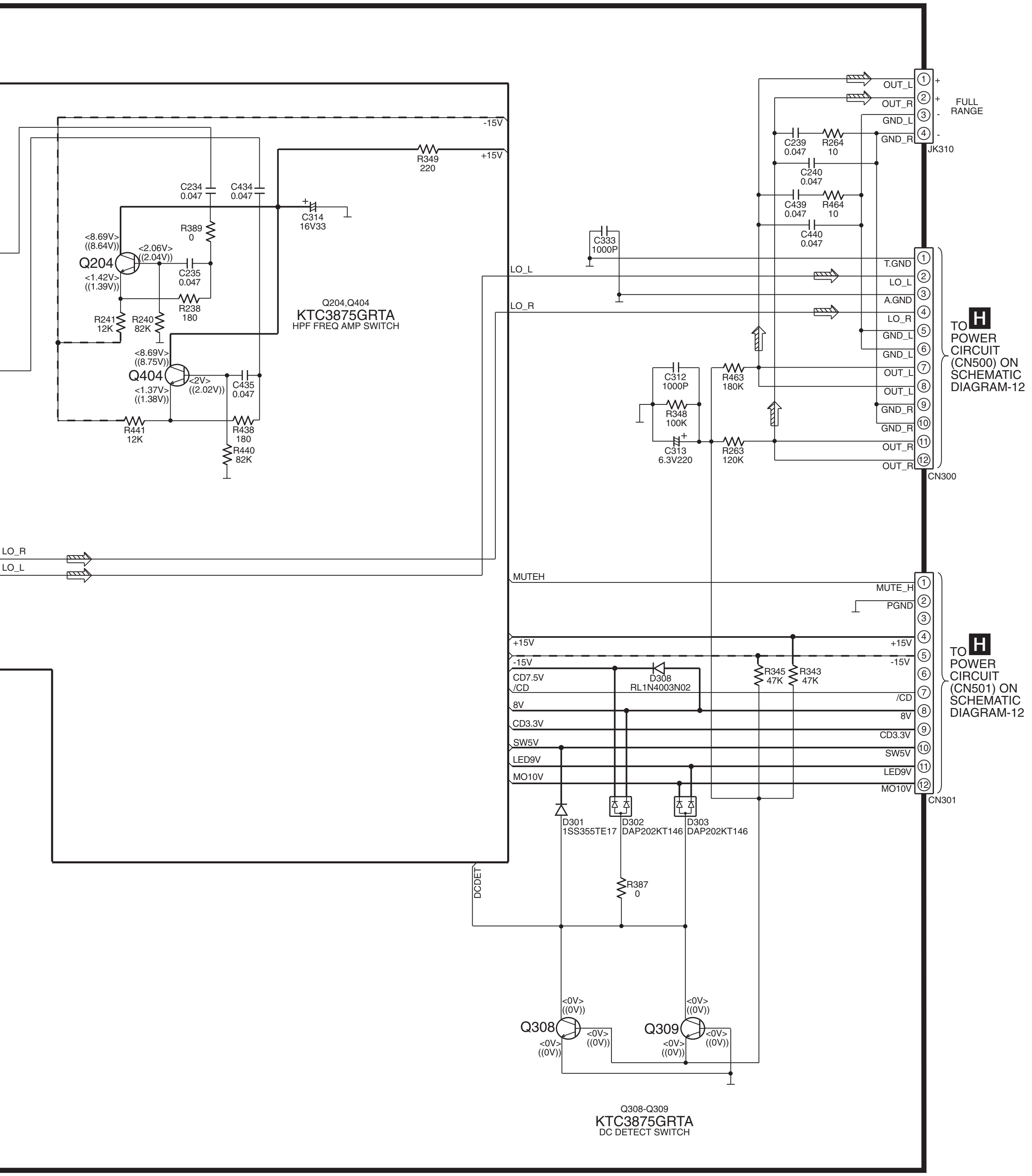
B MAIN CIRCUIT


TO C
PANEL CIRCUIT
(CP600) ON
SCHEMATIC DIAGRAM-9
CN302
PLLCE1
ST/DO/SQCLK
VREF+
SD
LM_L
SW5V
ASP_CLK
ASP_DATA
MUTE H
HPL
HPR
MUTE A
HP_GND
/CD
LED9V
DCDET
IC302
C0AABB000117
HP AMP
C242
8200P
R248
270K
-15V
ASP_DATA
CDL
CDR
R346
47
R225
56K
R224
3K
C227
100P
C228
47P
Q202
<0.02V>
((0.02V))
R229
1K
D202
MA728TX
C229
16V10
R228
100K
R226
2.2K
R227
4.7K
R230
15K
R221
5.6K
C226
50V0.68
<-8.36V>
((-8.4V))
R222
4.7K
R223
47K
C307
100P
C224
0.082
C225
100P
C319
0.01
GND
IC302
VCC
C424
0.082
C425
100P
C318
0.01
R422
4.7K
R423
47K
C426
50V0.68
<8.66V>
((8.72V))
R407
82
R207
82
R408
5.6K
R208
5.6K
C308
100P
C427
100P
C428
47P
R430
15K
R424
3K
R425
56K
C442
8200P
R448
270K
R426
2.2K
D402
MA728TX
R421
5.6K
Q402
R429
1K
C429
16V10
R428
100K
R427
4.7K
Q402
KTC3875GRTA
AGC CONTROL
R347
47
+15V
C230
16V10
R231
2.2K
R384
0
C232
50V0.22
R232
100K
Q203
<-3.45V>
((0.7V))
R233
1K
C231
1000P
C431
1000P
R432
100K
Q403
<-3.48V>
((0.7V))
R433
1K
C430
16V10
R431
2.2K
C432
50V0.22
HPR
HPL
R236
33
R237
33
R436
33
R437
33
R234
33
R235
33
C233
1000P
C433
1000P
R434
33
R435
33
R262
4.7K
R265
560
R465
560
R462
4.7K
R450
3.3K
Q407
<-3.46V>
((0.7V))
R449
470
R250
3.3K
Q207
<-3.45V>
((0.7V))
R249
470
LO_R
LO_L
Q203,Q403
KTD1304TA
MUTING SWITCH
Q207,Q407
KTD1304TA
HEADPHONE
MUTING SWITCH
IC302
C0AABB000117
HP AMP
Q202
KTC3875GRTA
AGC CONTROL
Q307
KRA102STA
AUDIO MUTING
CONTROL SWITCH
Q307
R337
47K
C310
50V4.7
R339
33K
<-3.47V>
((1.82V))
<0.28V>
((1.92V))
-15V
MUTEA
PLLCE
PLLDA
PLLCLK
R318
100
R319
100
R320
100
R321
100K
R322
100K
R323
100K
R329
10K
ST/DO/SQCK
/CDRST
D313 MA728TX
D314 MA728TX
D315 MA728TX
D316 MA728TX
R328
4.7K
+15V
C323
1000P
C321
1000P
R324
5.6K
R325
5.6K
R326
5.6K
R327
5.6K
CD3.3V
CD7.5V
C322
1000P
CDR
CDL
BLKCLK
SUBQ
STATUS
/RESTSW
SW5V
Q303
KRC101STA
BLKCLK INTERFACE SWITCH
Q304
KRC101STA
SUBQ INTERFACE SWITCH
Q305
KRC101STA
CD STATUS INTERFACE SWITCH
Q303
Q304
Q305
<4.84V>
((4.85V))
<0.04V>
((0.01V))
<4.84V>
((0.06V))
<4.84V>
((4.83V))
<0.04V>
((0.02V))
<0.04V>
((1.45V))
R333
10K
R334
10K
R335
10K
R336
1K
R344
10K
R330
10K
R331
10K
R332
10K
C324
100P
C325
100P
C326
100P
LCH OUT
CDAGND
RCH OUT
CD3.3V
CDDGND
LD_SW
TX
+7.5V
PGND
MCLK
MDATA
MLD
SPEED
BLKCK
SQCK
SUBQ
STAT
RST
/REST SW
CN310
TO A
SERVO CIRCUIT
(CN702) ON
SCHEMATIC DIAGRAM-2

SCHEMATIC DIAGRAM - 6

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

B MAIN CIRCUIT

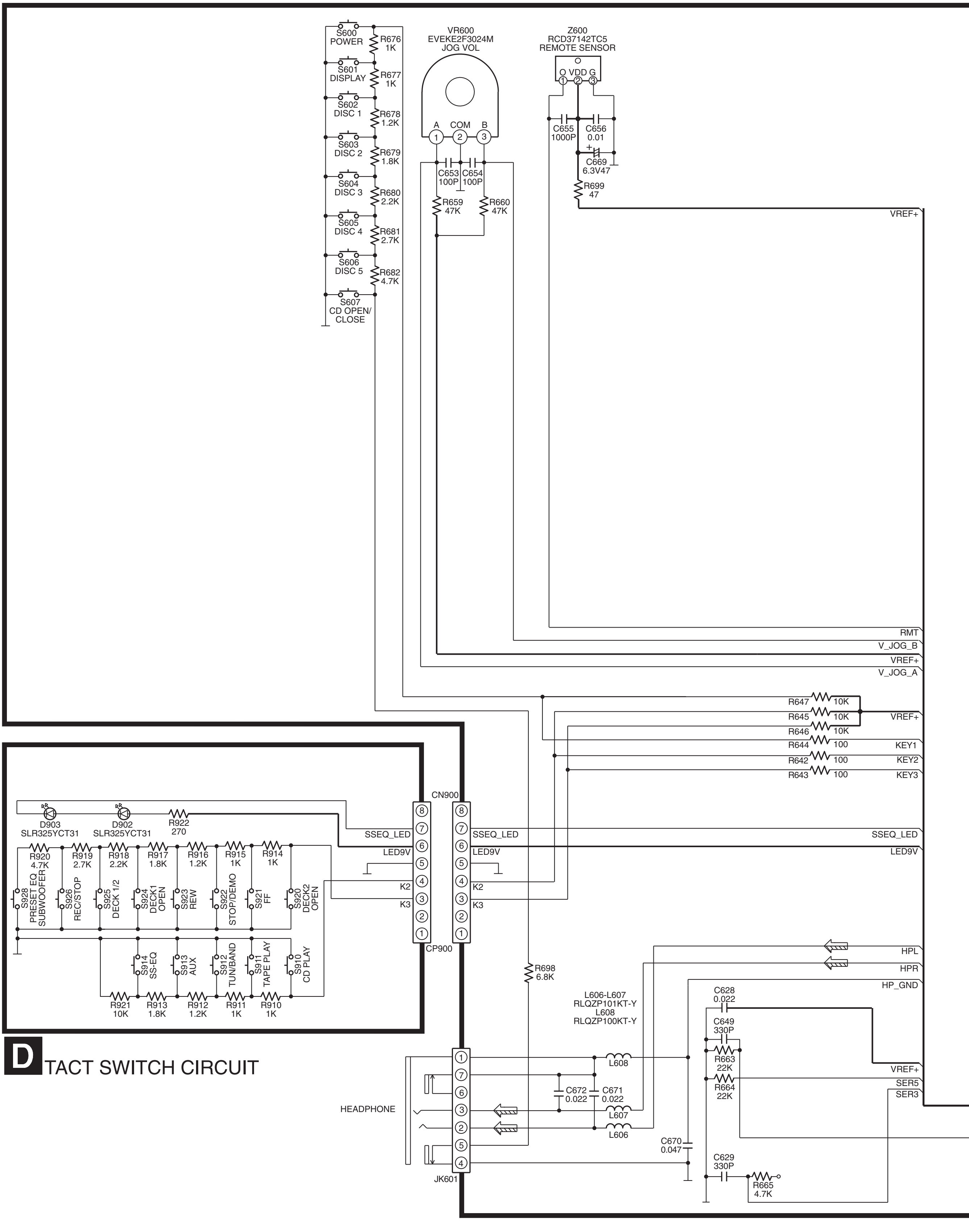

-15V
+15V
R349
220
C234
0.047
C434
0.047
C314
16V33
R389
0
<8.69V>
((8.64V))
Q204
<2.06V>
((2.04V))
C235
0.047
<1.42V>
((1.39V))
R238
180
R241
12K
R240
82K
Q204,Q404
KTC3875GRTA
HPF FREQ AMP SWITCH
<8.69V>
((8.75V))
Q404
<2V>
((2.02V))
C435
0.047
<1.37V>
((1.38V))
R441
12K
R438
180
R440
82K
LO_L
LO_R
LO_R
LO_L
OUT_L
OUT_R
GND_L
GND_R
FULL
RANGE
JK310
C239
0.047
R264
10
C240
0.047
C439
0.047
R464
10
C440
0.047
C333
1000P
T.GND
LO_L
A.GND
LO_R
GND_L
GND_L
OUT_L
OUT_L
OUT_L
GND_R
GND_R
OUT_R
OUT_R
CN300
C312
1000P
R463
180K
R348
100K
C313
6.3V220
R263
120K
TO H
POWER
CIRCUIT
(CN500) ON
SCHEMATIC
DIAGRAM-12
MUTEH
MUTE_H
PGND
+15V
+15V
-15V
-15V
CD7.5V
/CD
D308
RL1N4003N02
R345
47K
R343
47K
/CD
8V
8V
CD3.3V
CD3.3V
SW5V
SW5V
LED9V
LED9V
MO10V
MO10V
CN301
TO H
POWER
CIRCUIT
(CN501) ON
SCHEMATIC
DIAGRAM-12
D301
1SS355TE17
D302
DAP202KT146
D303
DAP202KT146
DCDET
R387
0
<0V>
((0V))
Q308
<0V>
((0V))
<0V>
((0V))
<0V>
((0V))
Q309
<0V>
((0V))
<0V>
((0V))
Q308-Q309
KTC3875GRTA
DC DETECT SWITCH

SCHEMATIC DIAGRAM - 7

—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

C PANEL CIRCUIT

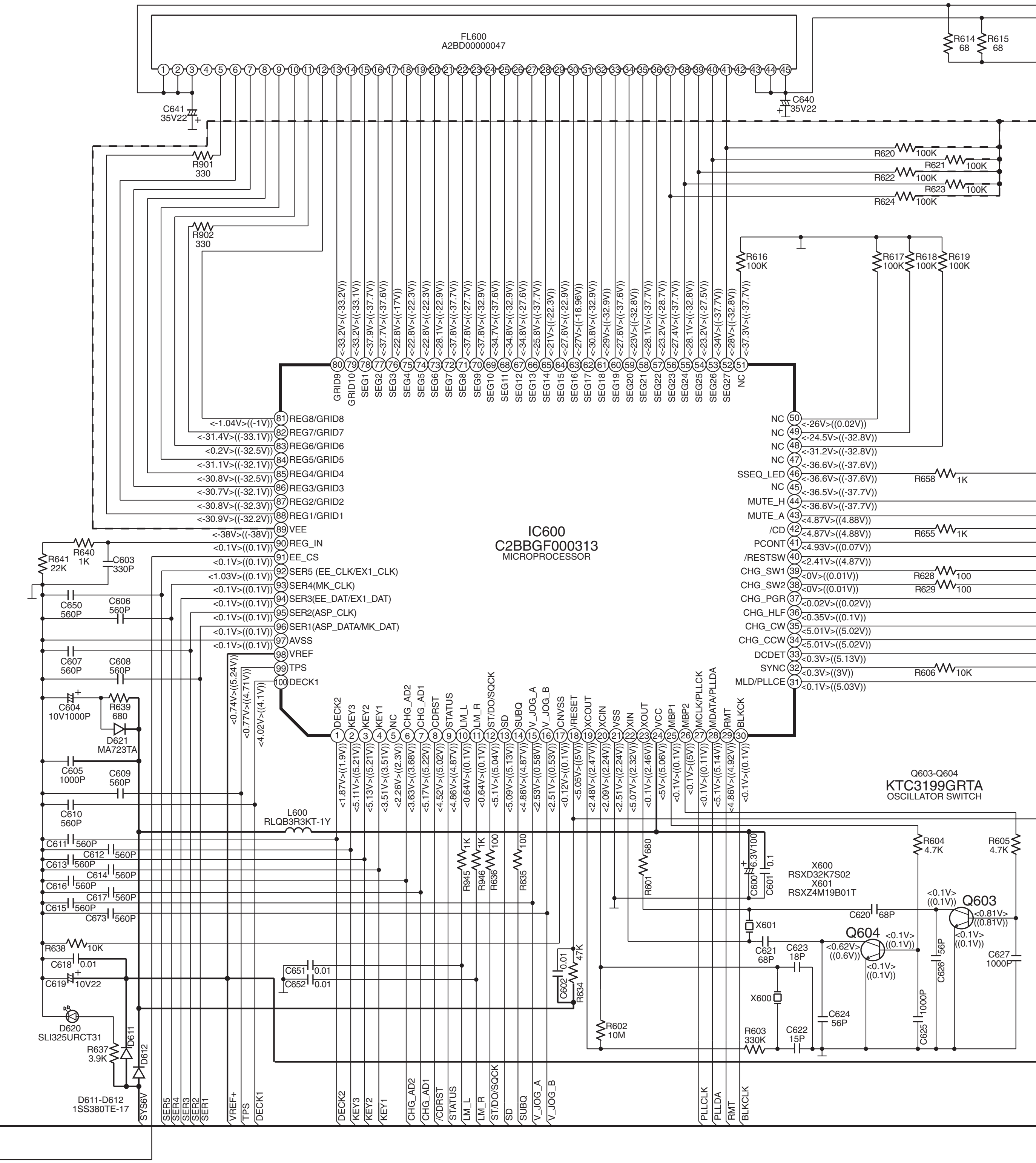
D TACT SWITCH CIRCUIT


S600
POWER
R676
1K
S601
DISPLAY
R677
1K
S602
DISC 1
R678
1.2K
S603
DISC 2
R679
1.8K
S604
DISC 3
R680
2.2K
S605
DISC 4
R681
2.7K
S606
DISC 5
R682
4.7K
S607
CD OPEN/
CLOSE
VR600
EVEKE2F3024M
JOG VOL
A COM B
1 2 3
C653
100P
C654
100P
R659
47K
R660
47K
Z600
RCD37142TC5
REMOTE SENSOR
O VDD G
1 2 3
C655
1000P
C656
0.01
C669
6.3V47
R699
47
VREF+
RMT
V_JOG_B
VREF+
V_JOG_A
R647 10K
R645 10K
R646 10K
VREF+
R644 100
KEY1
R642 100
KEY2
R643 100
KEY3
CN900
SSEQ_LED
LED9V
K2
K3
SSEQ_LED
LED9V
K2
K3
SSEQ_LED
LED9V
CP900
D903
SLR325YCT31
D902
SLR325YCT31
R922
270
R920
4.7K
R919
2.7K
R918
2.2K
R917
1.8K
R916
1.2K
R915
1K
R914
1K
S928
PRESET EQ
SUBWOOFER
S926
REC/STOP
S925
DECK 1/2
S924
DECK1
OPEN
S923
REW
S922
STOP/DEMO
S921
FF
S920
DECK2
OPEN
S914
SS-EQ
S913
AUX
S912
TUN/BAND
S911
TAPE PLAY
S910
CD PLAY
R921
10K
R913
1.8K
R912
1.2K
R911
1K
R910
1K
R698
6.8K
HPL
HPR
HP_GND
L606-L607
RLQZP101KT-Y
L608
RLQZP100KT-Y
C628
0.022
C649
330P
R663
22K
R664
22K
VREF+
SER5
SER3
L608
C672
0.022
C671
0.022
L607
L606
C670
0.047
C629
330P
R665
4.7K
HEADPHONE
JK601

SCHEMATIC DIAGRAM - 8

——— : +B SIGNAL LINE　　– – : -B SIGNAL LINE

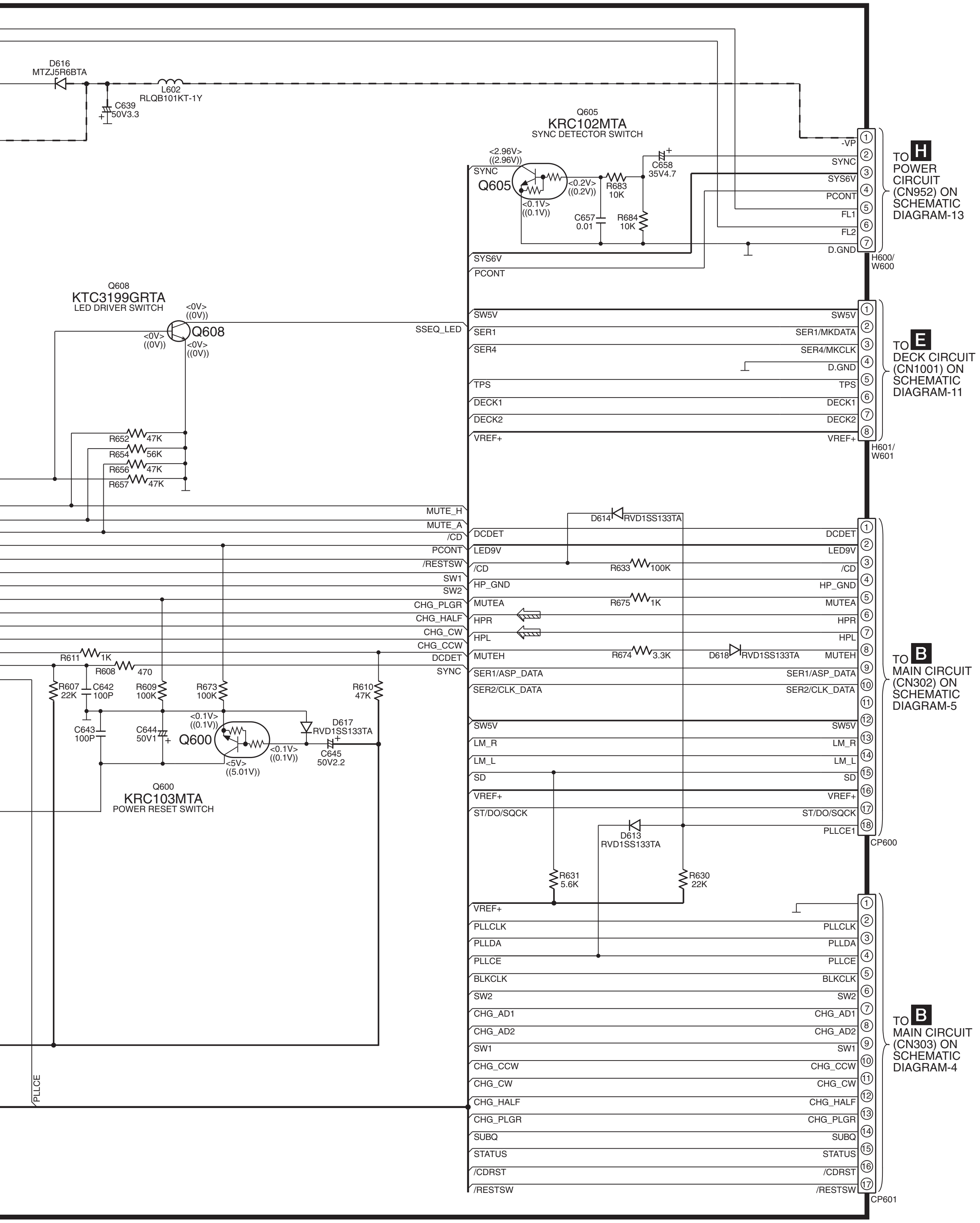
C PANEL CIRCUIT


FL600
A2BD00000047
R614 68
R615 68
C641 35V22
C640 35V22
R901 330
R902 330
R620 100K
R621 100K
R622 100K
R623 100K
R624 100K
R616 100K
R617 100K
R618 100K
R619 100K
IC600
C2BBGF000313
MICROPROCESSOR
GRID9 GRID10 SEG1 SEG2 SEG3 SEG4 SEG5 SEG6 SEG7 SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 SEG14 SEG15 SEG16 SEG17 SEG18 SEG19 SEG20 SEG21 SEG22 SEG23 SEG24 SEG25 SEG26 SEG27 NC
<-33.2V>((-33.2V)) <-33.2V>((-33.1V)) <-37.9V>((-37.7V)) <-37.7V>((-37.6V)) <-22.8V>((-17V)) <-22.8V>((-22.3V)) <-22.8V>((-22.3V)) <-28.1V>((-22.9V)) <-37.8V>((-37.7V)) <-37.8V>((-27.7V)) <-37.8V>((-32.9V)) <-34.7V>((-37.6V)) <-34.8V>((-32.9V)) <-34.8V>((-27.6V)) <-25.8V>((-37.7V)) <-21V>((-22.3V)) <-27.6V>((-22.9V)) <-27V>((-16.96V)) <-30.8V>((-32.9V)) <-29V>((-32.9V)) <-27.6V>((-37.6V)) <-23V>((-32.8V)) <-28.1V>((-37.7V)) <-23.2V>((-28.7V)) <-27.4V>((-37.7V)) <-28.1V>((-32.8V)) <-23.2V>((-27.5V)) <-34V>((-37.7V)) <-28V>((-32.8V)) <-37.3V>((-37.7V))
81 REG8/GRID8 <-1.04V>((-1V))
82 REG7/GRID7 <-31.4V>((-33.1V))
83 REG6/GRID6 <0.2V>((-32.5V))
84 REG5/GRID5 <-31.1V>((-32.1V))
85 REG4/GRID4 <-30.8V>((-32.5V))
86 REG3/GRID3 <-30.7V>((-32.1V))
87 REG2/GRID2 <-30.8V>((-32.3V))
88 REG1/GRID1 <-30.9V>((-32.2V))
89 VEE <-38V>((-38V))
90 REG_IN <0.1V>((0.1V))
91 EE_CS <0.1V>((0.1V))
92 SER5 (EE_CLK/EX1_CLK) <1.03V>((0.1V))
93 SER4(MK_CLK) <0.1V>((0.1V))
94 SER3(EE_DAT/EX1_DAT) <0.1V>((0.1V))
95 SER2(ASP_CLK) <0.1V>((0.1V))
96 SER1(ASP_DATA/MK_DAT) <0.1V>((0.1V))
97 AVSS <0.1V>((0.1V))
98 VREF
99 TPS
100 DECK1
<0.74V>((5.24V)) <0.77V>((4.71V)) <4.02V>((4.1V))
50 NC <-26V>((0.02V))
49 NC <-24.5V>((-32.8V))
48 NC <-31.2V>((-32.8V))
47 NC <-36.6V>((-37.6V))
46 SSEQ_LED <-36.6V>((-37.6V))
45 NC <-36.5V>((-37.7V))
44 MUTE_H <-36.6V>((-37.7V))
43 MUTE_A <4.87V>((4.88V))
42 /CD <4.87V>((4.88V))
41 PCONT <4.93V>((0.07V))
40 /RESTSW <2.41V>((4.87V))
39 CHG_SW1 <0V>((0.01V))
38 CHG_SW2 <0V>((0.01V))
37 CHG_PGR <0.02V>((0.02V))
36 CHG_HLF <0.35V>((0.1V))
35 CHG_CW <5.01V>((5.02V))
34 CHG_CCW <5.01V>((5.02V))
33 DCDET <0.3V>((5.13V))
32 SYNC <0.3V>((3V))
31 MLD/PLLCE <0.1V>((5.03V))
R658 1K
R655 1K
R628 100
R629 100
R606 10K
1 DECK2 2 KEY3 3 KEY2 4 KEY1 5 NC 6 CHG_AD2 7 CHG_AD1 8 CDRST 9 STATUS 10 LM_L 11 LM_R 12 ST/DO/SQCK 13 SD 14 SUBQ 15 V_JOG_A 16 V_JOG_B 17 CNVSS 18 /RESET 19 XCOUT 20 XCIN 21 VSS 22 XIN 23 XOUT 24 VCC 25 MBP1 26 MBP2 27 MCLK/PLLCK 28 MDATA/PLLDA 29 RMT 30 BLKCK
<1.87V>((1.9V)) <5.11V>((5.21V)) <5.13V>((5.21V)) <3.51V>((3.51V)) <2.26V>((2.3V)) <3.63V>((3.68V)) <5.17V>((5.22V)) <4.52V>((5.02V)) <4.86V>((4.87V)) <0.64V>((0.1V)) <0.64V>((0.1V)) <5.1V>((5.04V)) <5.09V>((5.13V)) <4.86V>((4.87V)) <2.53V>((0.58V)) <2.51V>((0.53V)) <0.12V>((0.1V)) <5.05V>((5V)) <2.48V>((2.47V)) <2.09V>((2.24V)) <2.51V>((2.24V)) <5.07V>((2.32V)) <0.1V>((2.46V)) <5V>((5.06V)) <0.1V>((0.1V)) <0.1V>((5V)) <0.1V>((0.11V)) <5.1V>((5.14V)) <4.86V>((4.92V)) <0.1V>((0.1V))
R641 22K
R640 1K
C603 330P
C650 560P
C606 560P
C607 560P
C608 560P
C604 10V1000P
R639 680
D621 MA723TA
C605 1000P
C609 560P
C610 560P
L600 RLQB3R3KT-1Y
C611 560P
C612 560P
C613 560P
C614 560P
C616 560P
C617 560P
C615 560P
C673 560P
R638 10K
C618 0.01
C619 10V22
D620 SLI325URCT31
R637 3.9K
D611
D612
D611-D612 1SS380TE-17
R945 1K
R946 1K
R636 100
R635 100
R601 680
C600 6.3V100
C601 0.1
C651 0.01
C652 0.01
C602 0.01
R634 47K
R602 10M
X600 RSXD32K7S02
X601 RSXZ4M19B01T
X601
X600
C620 68P
C621 68P
C623 18P
C624 56P
C622 15P
R603 330K
Q603-Q604
KTC3199GRTA
OSCILLATOR SWITCH
R604 4.7K
R605 4.7K
Q603 <0.81V> ((0.81V)) <0.1V> ((0.1V))
Q604 <0.62V> ((0.6V)) <0.1V> ((0.1V))
C626 56P
C625 1000P
C627 1000P
SYS6V SER5 SER4 SER3 SER2 SER1 VREF+ TPS DECK1 DECK2 KEY3 KEY2 KEY1 CHG_AD2 CHG_AD1 /CDRST STATUS LM_L LM_R ST/DO/SQCK SD SUBQ V_JOG_A V_JOG_B PLLCLK PLLDA RMT BLKCLK

SCHEMATIC DIAGRAM - 9

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇨ : MAIN SIGNAL LINE

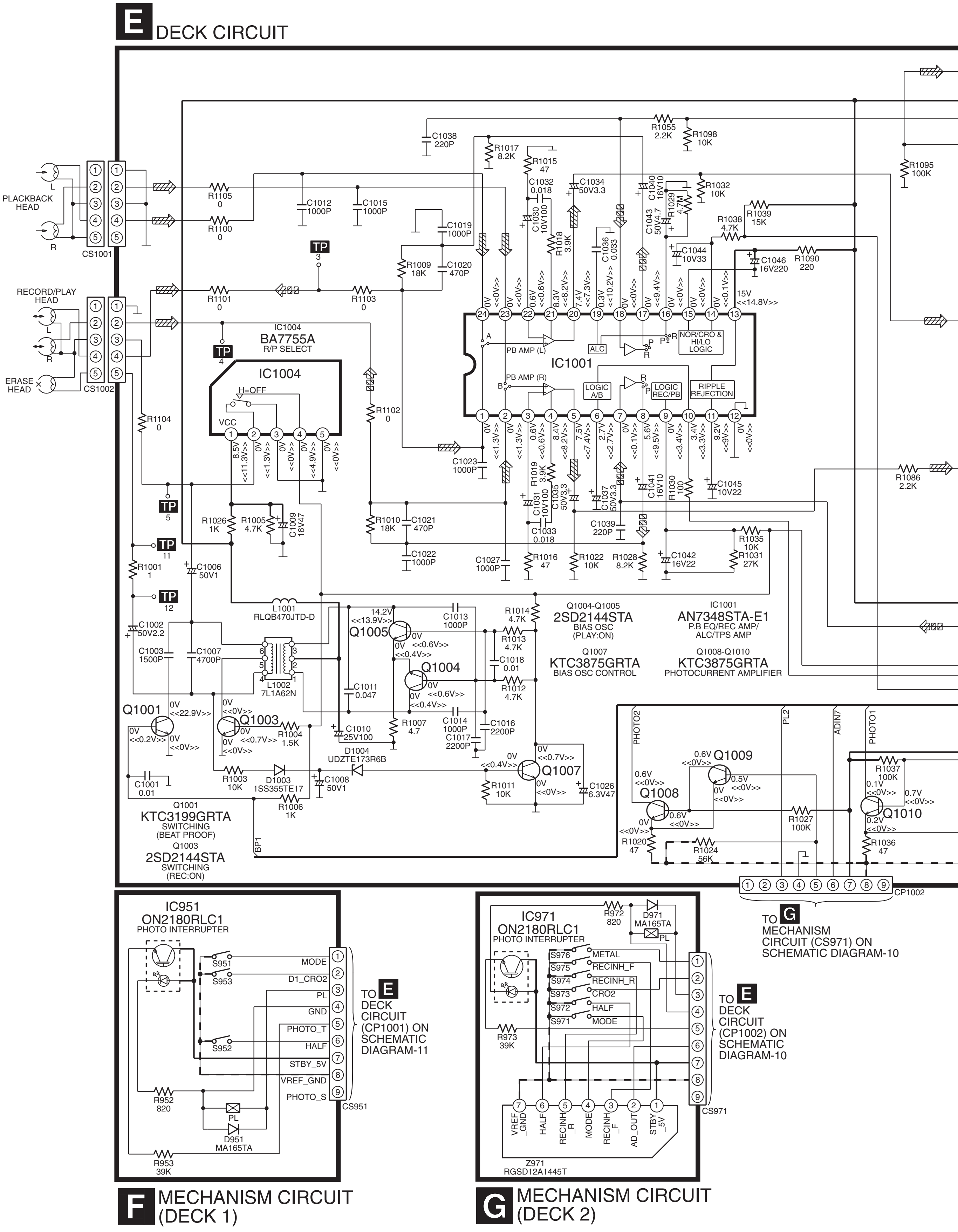
C PANEL CIRCUIT



D616
MTZJ5R6BTA
L602
RLQB101KT-1Y
C639
50V3.3
Q605
KRC102MTA
SYNC DETECTOR SWITCH
<2.96V>
((2.96V))
SYNC
Q605
<0.2V>
((0.2V))
<0.1V>
((0.1V))
R683
10K
C658
35V4.7
C657
0.01
R684
10K
SYS6V
PCONT
-VP
SYNC
SYS6V
PCONT
FL1
FL2
D.GND
H600/
W600
TO H
POWER
CIRCUIT
(CN952) ON
SCHEMATIC
DIAGRAM-13
Q608
KTC3199GRTA
LED DRIVER SWITCH
<0V>
((0V))
<0V>
((0V))
Q608
<0V>
((0V))
SSEQ_LED
SW5V
SER1
SER4
TPS
DECK1
DECK2
VREF+
SW5V
SER1/MKDATA
SER4/MKCLK
D.GND
TPS
DECK1
DECK2
VREF+
H601/
W601
TO E
DECK CIRCUIT
(CN1001) ON
SCHEMATIC
DIAGRAM-11
R652 47K
R654 56K
R656 47K
R657 47K
MUTE_H
MUTE_A
/CD
PCONT
/RESTSW
SW1
SW2
CHG_PLGR
CHG_HALF
CHG_CW
CHG_CCW
DCDET
SYNC
D614 RVD1SS133TA
DCDET
LED9V
/CD
HP_GND
MUTEA
HPR
HPL
MUTEH
SER1/ASP_DATA
SER2/CLK_DATA
SW5V
LM_R
LM_L
SD
VREF+
ST/DO/SQCK
R633 100K
R675 1K
R674 3.3K
D618 RVD1SS133TA
DCDET
LED9V
/CD
HP_GND
MUTEA
HPR
HPL
MUTEH
SER1/ASP_DATA
SER2/CLK_DATA
SW5V
LM_R
LM_L
SD
VREF+
ST/DO/SQCK
PLLCE1
CP600
TO B
MAIN CIRCUIT
(CN302) ON
SCHEMATIC
DIAGRAM-5
R611 1K
R608 470
R607
22K
C642
100P
C643
100P
R609
100K
R673
100K
R610
47K
C644
50V1
<0.1V>
((0.1V))
Q600
D617
RVD1SS133TA
C645
50V2.2
<0.1V>
((0.1V))
<5V>
((5.01V))
Q600
KRC103MTA
POWER RESET SWITCH
D613
RVD1SS133TA
R631
5.6K
R630
22K
VREF+
PLLCLK
PLLDA
PLLCE
BLKCLK
SW2
CHG_AD1
CHG_AD2
SW1
CHG_CCW
CHG_CW
CHG_HALF
CHG_PLGR
SUBQ
STATUS
/CDRST
/RESTSW
PLLCLK
PLLDA
PLLCE
BLKCLK
SW2
CHG_AD1
CHG_AD2
SW1
CHG_CCW
CHG_CW
CHG_HALF
CHG_PLGR
SUBQ
STATUS
/CDRST
/RESTSW
CP601
TO B
MAIN CIRCUIT
(CN303) ON
SCHEMATIC
DIAGRAM-4
PLLCE

SCHEMATIC DIAGRAM - 10

—— : +B SIGNAL LINE
– – : -B SIGNAL LINE
⇨ : PLAYBACK SIGNAL LINE
⇨ : RECORD SIGNAL LINE


E DECK CIRCUIT
PLACKBACK HEAD
L
R
CS1001
RECORD/PLAY HEAD
ERASE HEAD
CS1002
R1105 0
R1100 0
R1101 0
R1103 0
R1104 0
R1102 0
C1012 1000P
C1015 1000P
C1019 1000P
C1020 470P
R1009 18K
TP 3
TP 4
TP 5
TP 11
TP 12
C1038 220P
R1017 8.2K
R1015 47
C1032 0.018
C1030 10V100
R1018 3.9K
C1034 50V3.3
C1036 0.033
C1040 16V10
C1043 50V4.7
R1029 4.7M
R1055 2.2K
R1098 10K
R1032 10K
R1038 4.7K
R1039 15K
C1044 10V33
C1046 16V220
R1090 220
R1095 100K
IC1004
BA7755A
R/P SELECT
H=OFF
VCC
IC1001
PB AMP (L)
PB AMP (R)
ALC
NOR/CRO & HI/LO LOGIC
LOGIC A/B
LOGIC REC/PB
RIPPLE REJECTION
15V <<14.8V>>
C1023 1000P
R1019 3.9K
C1031 10V100
C1035 50V3.3
C1033 0.018
C1037 50V3.3
C1039 220P
C1041 16V10
R1030 100
C1045 10V22
R1086 2.2K
R1026 1K
R1005 4.7K
C1009 16V47
R1010 18K
C1021 470P
C1022 1000P
C1027 1000P
R1016 47
R1022 10K
R1028 8.2K
C1042 16V22
R1035 10K
R1031 27K
R1001 1
C1006 50V1
C1002 50V2.2
C1003 1500P
C1007 4700P
L1001 RLQB470JTD-D
L1002 7L1A62N
Q1005
Q1004
14.2V <<13.9V>>
C1013 1000P
R1014 4.7K
R1013 4.7K
C1018 0.01
R1012 4.7K
C1011 0.047
C1010 25V100
R1007 4.7
C1014 1000P
C1017 2200P
C1016 2200P
D1004 UDZTE173R6B
Q1001
<<22.9V>>
Q1003
R1004 1.5K
R1003 10K
D1003 1SS355TE17
C1008 50V1
R1006 1K
C1001 0.01
BP1
Q1007
R1011 10K
C1026 6.3V47
Q1004-Q1005
2SD2144STA
BIAS OSC (PLAY:ON)
Q1007
KTC3875GRTA
BIAS OSC CONTROL
IC1001
AN7348STA-E1
P.B EQ/REC AMP/ ALC/TPS AMP
Q1008-Q1010
KTC3875GRTA
PHOTOCURRENT AMPLIFIER
Q1001
KTC3199GRTA
SWITCHING (BEAT PROOF)
Q1003
2SD2144STA
SWITCHING (REC:ON)
PHOTO2
PL2
ADIN7
PHOTO1
Q1009
Q1008
Q1010
R1037 100K
R1027 100K
R1020 47
R1024 56K
R1036 47
CP1002
TO G MECHANISM CIRCUIT (CS971) ON SCHEMATIC DIAGRAM-10
IC951
ON2180RLC1
PHOTO INTERRUPTER
S951
S953
S952
MODE
D1_CRO2
PL
GND
PHOTO_T
HALF
STBY_5V
VREF_GND
PHOTO_S
CS951
R952 820
D951 MA165TA
R953 39K
TO E DECK CIRCUIT (CP1001) ON SCHEMATIC DIAGRAM-11
IC971
ON2180RLC1
PHOTO INTERRUPTER
R972 820
D971 MA165TA
S976 METAL
S975 RECINH_F
S974 RECINH_R
S973 CRO2
S972 HALF
S971 MODE
R973 39K
VREF_GND
HALF
RECINH_R
MODE
RECINH_F
AD_OUT
STBY_5V
Z971 RGSD12A1445T
CS971
TO E DECK CIRCUIT (CP1002) ON SCHEMATIC DIAGRAM-10
F MECHANISM CIRCUIT (DECK 1)
G MECHANISM CIRCUIT (DECK 2)

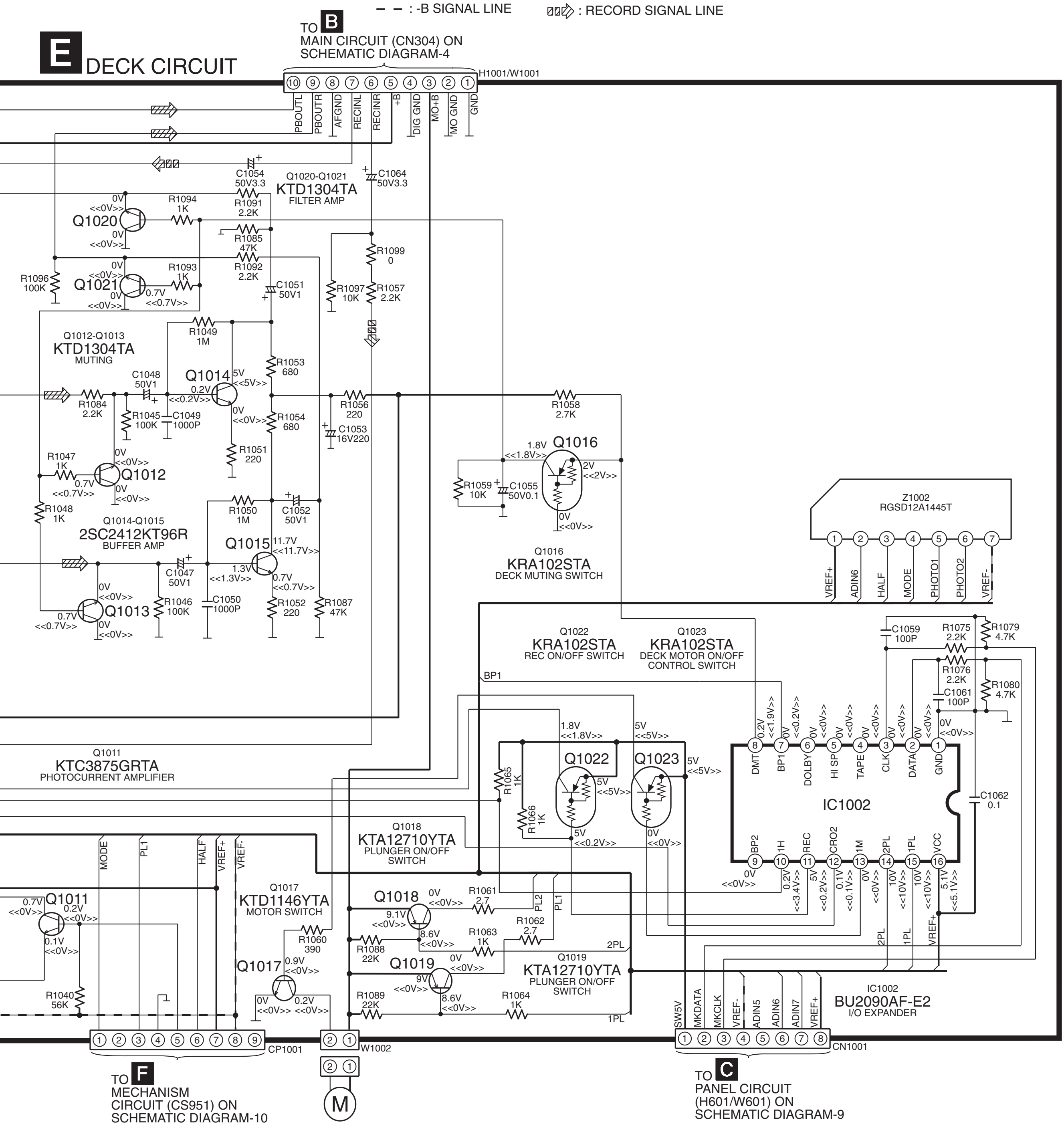
SCHEMATIC DIAGRAM - 11

—— : +B SIGNAL LINE

– – : -B SIGNAL LINE

▨⇨ : PLAYBACK SIGNAL LINE

▨⇨ : RECORD SIGNAL LINE

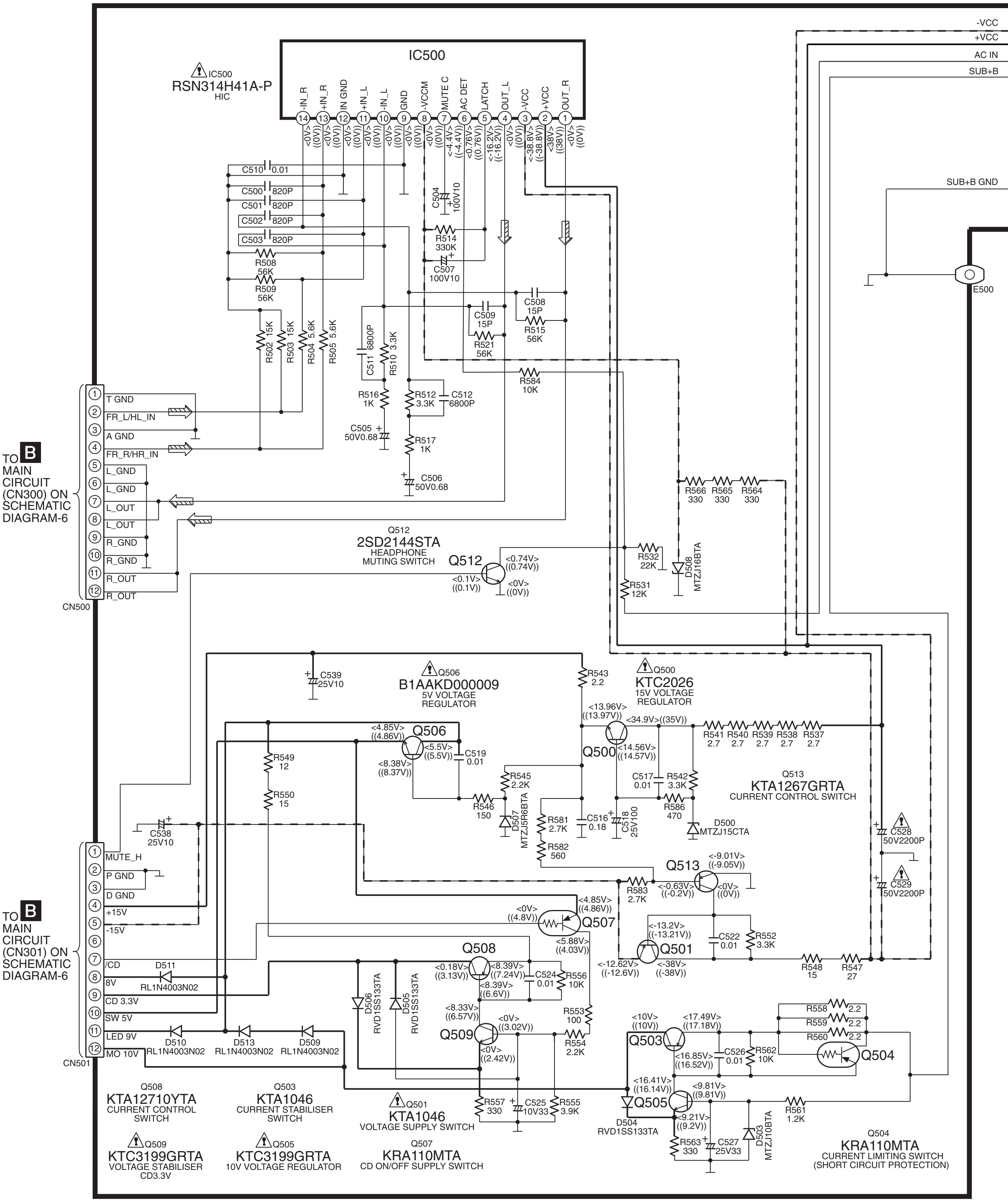


E DECK CIRCUIT
TO B MAIN CIRCUIT (CN304) ON SCHEMATIC DIAGRAM-4
H1001/W1001
⑩ ⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①
PBOUTL
PBOUTR
AFGND
RECINL
RECINR
+B
DIG GND
MO+B
MO GND
GND
C1054 50V3.3
C1064 50V3.3
Q1020-Q1021
KTD1304TA
FILTER AMP
R1094 1K
R1091 2.2K
R1085 47K
R1092 2.2K
R1093 1K
R1096 100K
Q1020
Q1021
0V
<<0V>>
0.7V
<<0.7V>>
C1051 50V1
R1099 0
R1097 10K
R1057 2.2K
Q1012-Q1013
KTD1304TA
MUTING
R1049 1M
R1053 680
C1048 50V1
Q1014
5V
<<5V>>
0.2V
<<0.2V>>
R1084 2.2K
R1045 100K
C1049 1000P
R1054 680
R1056 220
C1053 16V220
R1058 2.7K
R1051 220
R1047 1K
Q1012
R1048 1K
Q1014-Q1015
2SC2412KT96R
BUFFER AMP
R1050 1M
C1052 50V1
Q1015
11.7V
<<11.7V>>
1.3V
<<1.3V>>
C1047 50V1
R1046 100K
C1050 1000P
R1052 220
R1087 47K
Q1013
1.8V
<<1.8V>>
Q1016
2V
<<2V>>
R1059 10K
C1055 50V0.1
Q1016
KRA102STA
DECK MUTING SWITCH
Z1002
RGSD12A1445T
VREF+
ADIN6
HALF
MODE
PHOTO1
PHOTO2
VREF-
Q1022
KRA102STA
REC ON/OFF SWITCH
Q1023
KRA102STA
DECK MOTOR ON/OFF CONTROL SWITCH
BP1
C1059 100P
R1075 2.2K
R1079 4.7K
R1076 2.2K
R1080 4.7K
C1061 100P
C1062 0.1
Q1011
KTC3875GRTA
PHOTOCURRENT AMPLIFIER
R1065 1K
R1066 1K
Q1022
Q1023
5V
<<5V>>
<<0.2V>>
<<1.9V>>
DMT
BP1
DOLBY
HI SP
TAPE
CLK
DATA
GND
IC1002
BP2
1H
REC
CRO2
1M
2PL
1PL
VCC
<<3.4V>>
<<0.1V>>
<<10V>>
10V
5.1V
<<5.1V>>
Q1018
KTA12710YTA
PLUNGER ON/OFF SWITCH
MODE
PL1
HALF
VREF+
VREF-
Q1017
KTD1146YTA
MOTOR SWITCH
Q1011
Q1018
R1061 2.7
9.1V
<<9V>>
8.6V
<<8.6V>>
R1063 1K
R1062 2.7
PL2
PL1
2PL
1PL
R1060 390
R1088 22K
Q1019
KTA12710YTA
PLUNGER ON/OFF SWITCH
Q1017
0.9V
<<0V>>
R1040 56K
R1089 22K
R1064 1K
9V
IC1002
BU2090AF-E2
I/O EXPANDER
SW5V
MKDATA
MKCLK
VREF-
ADIN5
ADIN6
ADIN7
VREF+
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨
CP1001
② ①
W1002
M
CN1001
TO F MECHANISM CIRCUIT (CS951) ON SCHEMATIC DIAGRAM-10
TO C PANEL CIRCUIT (H601/W601) ON SCHEMATIC DIAGRAM-9

SCHEMATIC DIAGRAM - 12

—— : +B SIGNAL LINE　　– – : -B SIGNAL LINE　　⇨ : MAIN SIGNAL LINE

H POWER CIRCUIT

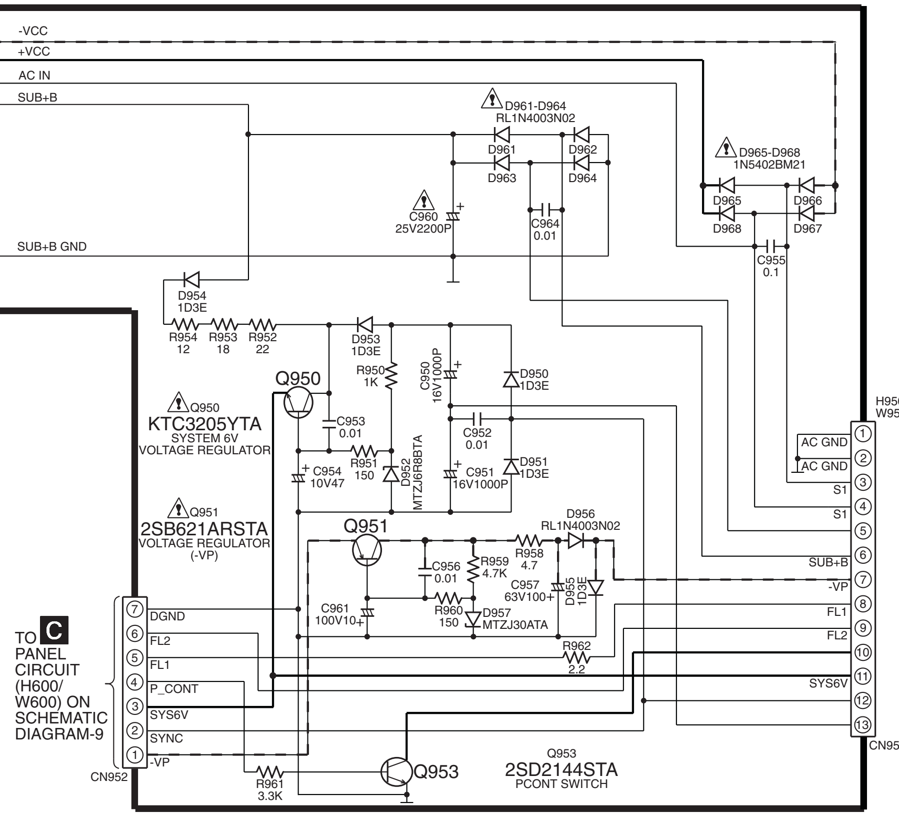


IC500
RSN314H41A-P
HIC
-IN_R 14, +IN_R 13, IN GND 12, +IN_L 11, -IN_L 10, GND 9, -VCCM 8, MUTE C 7, AC DET 6, LATCH 5, OUT_L 4, -VCC 3, +VCC 2, OUT_R 1
<0V> ((0V))
<-4.4V> ((-4.4V))
<0.76V> ((0.76V))
<-16.2V> ((-16.2V))
<-38.8V> ((-38.8V))
<38V> ((38V))
-VCC
+VCC
AC IN
SUB+B
SUB+B GND
E500
C510 0.01
C500 820P
C501 820P
C502 820P
C503 820P
R508 56K
R509 56K
C504 100V10
R514 330K
C507 100V10
C508 15P
C509 15P
R515 56K
R521 56K
R502 15K
R503 15K
R504 5.6K
R505 5.6K
C511 6800P
R510 3.3K
R584 10K
R516 1K
R512 3.3K
C512 6800P
C505 50V0.68
R517 1K
C506 50V0.68
R566 330
R565 330
R564 330
R532 22K
R531 12K
D508 MTZJ16BTA
TO B MAIN CIRCUIT (CN300) ON SCHEMATIC DIAGRAM-6
T GND
FR_L/HL_IN
A GND
FR_R/HR_IN
L_GND
L_GND
L_OUT
L_OUT
R_GND
R_GND
R_OUT
R_OUT
CN500
Q512
2SD2144STA
HEADPHONE MUTING SWITCH
<0.74V> ((0.74V))
<0.1V> ((0.1V))
<0V> ((0V))
C539 25V10
R543 2.2
Q506
B1AAKD000009
5V VOLTAGE REGULATOR
Q500
KTC2026
15V VOLTAGE REGULATOR
<13.96V> ((13.97V))
<34.9V> ((35V))
R541 2.7
R540 2.7
R539 2.7
R538 2.7
R537 2.7
<4.85V> ((4.86V))
<5.5V> ((5.5V))
C519 0.01
<8.38V> ((8.37V))
R549 12
R550 15
<14.56V> ((14.57V))
R545 2.2K
C517 0.01
R542 3.3K
Q513
KTA1267GRTA
CURRENT CONTROL SWITCH
R546 150
R586 470
D507 MTZJ5R6BTA
R581 2.7K
C516 0.18
C518 25V100
D500 MTZJ15CTA
C528 50V2200P
C538 25V10
R582 560
<-9.01V> ((-9.05V))
C529 50V2200P
R583 2.7K
<-0.63V> ((-0.2V))
<0V> ((0V))
TO B MAIN CIRCUIT (CN301) ON SCHEMATIC DIAGRAM-6
MUTE_H
P GND
D GND
+15V
-15V
/CD
8V
CD 3.3V
SW 5V
LED 9V
MO 10V
CN501
<4.85V> ((4.86V))
<0V> ((4.8V))
Q507
<5.88V> ((4.03V))
<-13.2V> ((-13.21V))
Q501
C522 0.01
R552 3.3K
<-12.62V> ((-12.6V))
<-38V> ((-38V))
R548 15
R547 27
D511
RL1N4003N02
Q508
<0.18V> ((3.13V))
<8.39V> ((7.24V))
<8.39V> ((6.6V))
C524 0.01
R556 10K
D506 RVD1SS133TA
D505 RVD1SS133TA
<8.33V> ((6.57V))
<0V> ((3.02V))
R553 100
Q509
R554 2.2K
<0V> ((2.42V))
D510 RL1N4003N02
D513 RL1N4003N02
D509 RL1N4003N02
R557 330
C525 10V33
R555 3.9K
<10V> ((10V))
<17.49V> ((17.18V))
Q503
C526 0.01
R562 10K
R558 2.2
R559 2.2
R560 2.2
Q504
<16.85V> ((16.52V))
<16.41V> ((16.14V))
<9.81V> ((9.81V))
Q505
R561 1.2K
D504 RVD1SS133TA
<9.21V> ((9.2V))
R563 330
C527 25V33
D503 MTZJ10BTA
Q508 KTA12710YTA CURRENT CONTROL SWITCH
Q503 KTA1046 CURRENT STABILISER SWITCH
Q501 KTA1046 VOLTAGE SUPPLY SWITCH
Q504 KRA110MTA CURRENT LIMITING SWITCH (SHORT CIRCUIT PROTECTION)
Q509 KTC3199GRTA VOLTAGE STABILISER CD3.3V
Q505 KTC3199GRTA 10V VOLTAGE REGULATOR
Q507 KRA110MTA CD ON/OFF SUPPLY SWITCH

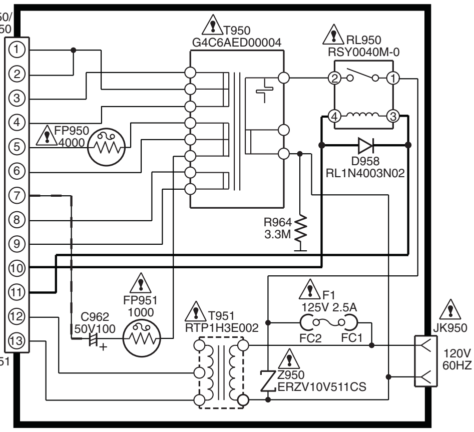
SCHEMATIC DIAGRAM - 13

—— : +B SIGNAL LINE – – : -B SIGNAL LINE

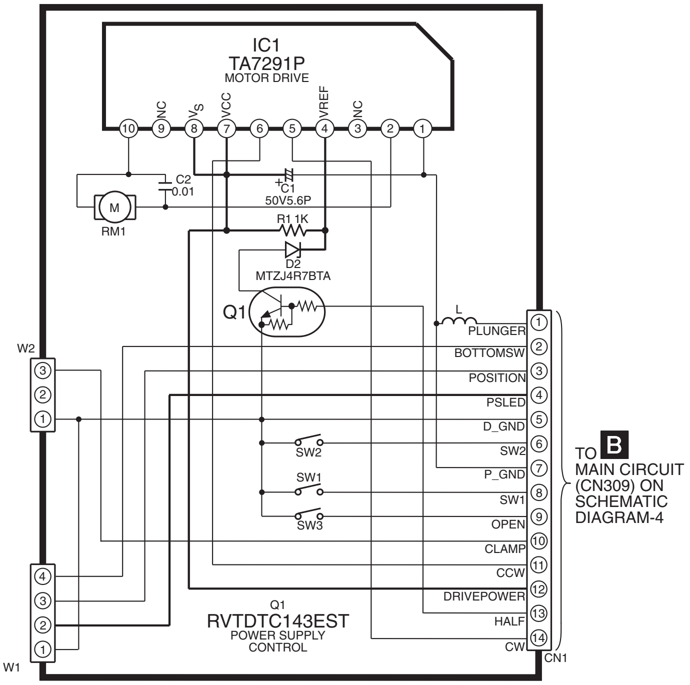
H POWER CIRCUIT


-VCC
+VCC
AC IN
SUB+B
SUB+B GND
D961-D964
RL1N4003N02
D961
D962
D963
D964
D965-D968
1N5402BM21
D965
D966
D968
D967
C960
25V2200P
C964
0.01
C955
0.1
D954
1D3E
R954
12
R953
18
R952
22
D953
1D3E
R950
1K
C950
16V1000P
D950
1D3E
Q950
Q950
KTC3205YTA
SYSTEM 6V
VOLTAGE REGULATOR
C953
0.01
C952
0.01
C954
10V47
R951
150
D952
MTZJ6R8BTA
C951
16V1000P
D951
1D3E
Q951
2SB621ARSTA
VOLTAGE REGULATOR
(-VP)
Q951
D956
RL1N4003N02
C956
0.01
R959
4.7K
R958
4.7
C957
63V100
D955
1D3E
C961
100V10
R960
150
D957
MTZJ30ATA
R962
2.2
TO C PANEL CIRCUIT (H600/ W600) ON SCHEMATIC DIAGRAM-9
DGND
FL2
FL1
P_CONT
SYS6V
SYNC
-VP
CN952
R961
3.3K
Q953
Q953
2SD2144STA
PCONT SWITCH
AC GND
AC GND
S1
S1
SUB+B
-VP
FL1
FL2
SYS6V
CN951

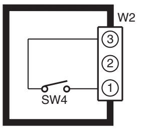
I TRANSFORMER CIRCUIT


H950/
W950
T950
G4C6AED00004
RL950
RSY0040M-0
FP950
4000
D958
RL1N4003N02
R964
3.3M
C962
50V100
FP951
1000
T951
RTP1H3E002
F1
125V 2.5A
FC2
FC1
Z950
ERZV10V511CS
JK950
120V
60HZ

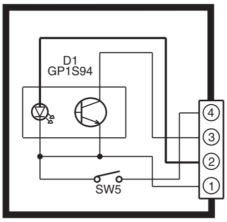
K CD LOADING CIRCUIT

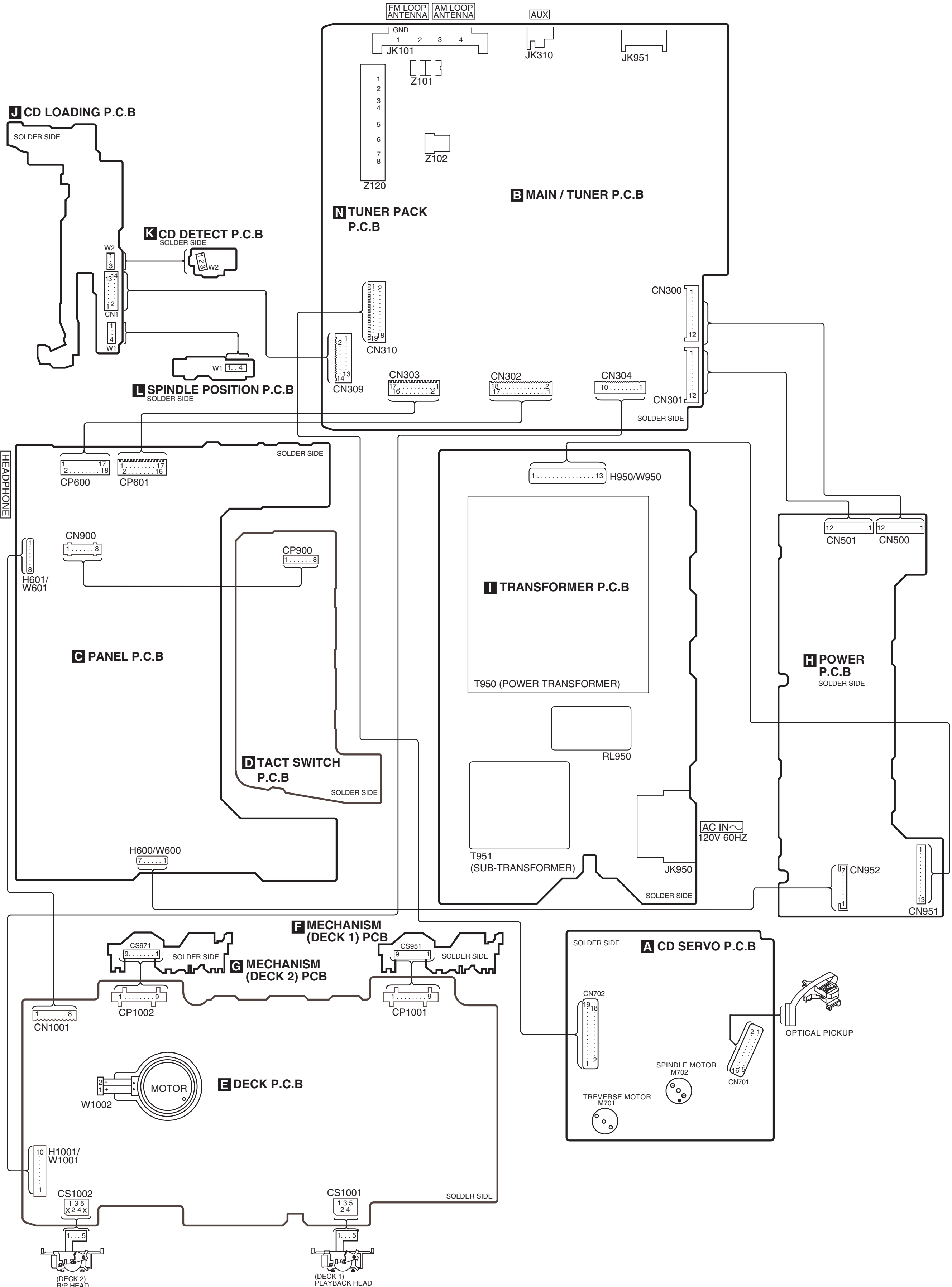

IC1
TA7291P
MOTOR DRIVE
NC
VS
VCC
VREF
NC
C2
0.01
C1
50V5.6P
RM1
M
R1 1K
D2
MTZJ4R7BTA
Q1
L
PLUNGER
BOTTOMSW
POSITION
PSLED
D_GND
SW2
P_GND
SW1
OPEN
CLAMP
CCW
DRIVEPOWER
HALF
CW
SW2
SW1
SW3
W2
W1
Q1
RVTDTC143EST
POWER SUPPLY
CONTROL
CN1
TO B MAIN CIRCUIT (CN309) ON SCHEMATIC DIAGRAM-4

L CD DETECT CIRCUIT

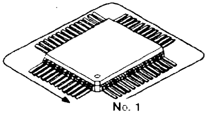


M SPINDLE POSITION CIRCUIT

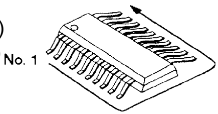

D1
GP1S94
SW5


FM LOOP ANTENNA
AM LOOP ANTENNA
AUX
GND
1 2 3 4
JK101
JK310
JK951
Z101
Z120
Z102
J CD LOADING P.C.B
SOLDER SIDE
B MAIN / TUNER P.C.B
N TUNER PACK P.C.B
K CD DETECT P.C.B
SOLDER SIDE
W2
CN1
W1
CN300
CN301
CN310
CN309
CN303
CN302
CN304
L SPINDLE POSITION P.C.B
SOLDER SIDE
SOLDER SIDE
HEADPHONE
CP600
CP601
SOLDER SIDE
H950/W950
CN900
CP900
H601/W601
C PANEL P.C.B
I TRANSFORMER P.C.B
T950 (POWER TRANSFORMER)
RL950
T951 (SUB-TRANSFORMER)
JK950
AC IN~ 120V 60HZ
SOLDER SIDE
CN501
CN500
H POWER P.C.B
SOLDER SIDE
CN952
CN951
D TACT SWITCH P.C.B
SOLDER SIDE
H600/W600
F MECHANISM (DECK 1) PCB
CS971
SOLDER SIDE
G MECHANISM (DECK 2) PCB
CS951
SOLDER SIDE
CP1002
CP1001
CN1001
A CD SERVO P.C.B
SOLDER SIDE
CN702
CN701
OPTICAL PICKUP
SPINDLE MOTOR M702
TREVERSE MOTOR M701
MOTOR
W1002
E DECK P.C.B
H1001/W1001
CS1002
CS1001
SOLDER SIDE
(DECK 2) R/P HEAD
(DECK 1) PLAYBACK HEAD

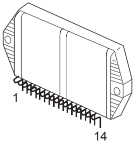
C1BB00000654 (42P)
C2BBGF000313 (100P)
MN662790RSC (80P)



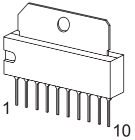
AN7348STA-E1 (24P)
AN8885SBE1 (28P)
BU2090AF-E2 (16P)
LA1833NMNTLM (24P)
LC72131MDTRM (20P)



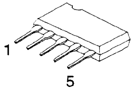
RSN35H1A-P



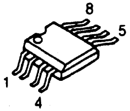
TA7291P



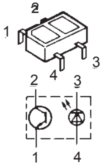
BA7755A



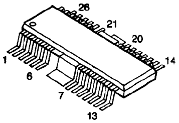
C0AABB000117



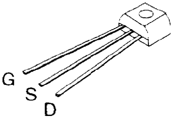
0N2180RLC1



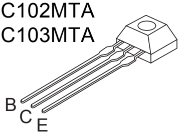
AN8739SBE2


26
21
20
14
1
6
7
13

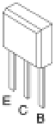
2SK544F-AC



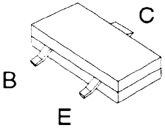
KRA102MTA
KRA110MTA
KRC102MTA
KRC103MTA



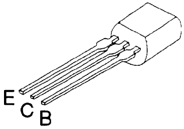
2SC2058SPTA



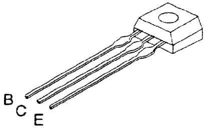
KRA102STA
KRC101STA
KRC102STA
KTC3875GRTA
KTD1304TA
2SA1037AKSTX
2SC2412KT96R



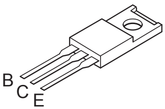
KTA1267GRTA
KTA12710YTA
KTC3205YTA
KTD1146YTA
2SB621ARSTA
B1AAKD000009



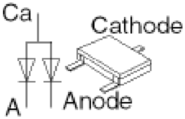
KTC3199GRTA
RVTDTC143EST
2SC2786MTA
2SC2787FL1TA
2SD2144STA



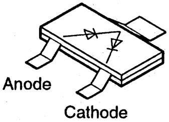
KTC2026□
KTA1046



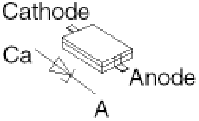
DAP202KT146


Ca
Cathode
A
Anode

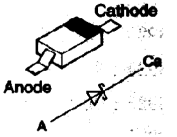
DA204KT146


Anode
Cathode

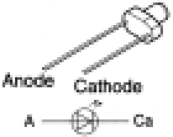
1SS355TE17
1SS380TE-17
UDZSTE173R6B
UDZSTE175R1B
UDZSTE177R5B


Cathode
Ca
Anode
A

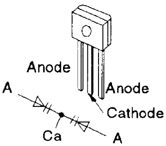
MA728TX


Cathode
Ca
Anode
A

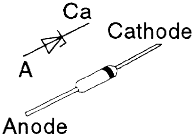
SLI325URCT31
SLR325YCT31


Anode
Cathode
A
Ca

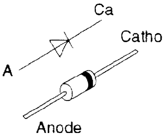
SVC211SPA-AL


Anode
A
Anode
Cathode
Ca
A

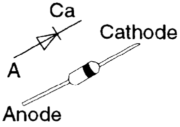
MTZJ4R7BTA
MTZJ5R6BTA
MTZJ6R8BTA
MTZJ10BTA
MTZJ15CTA
MTZJ16BTA
MTZJ30ATA


Ca
Cathode
A
Anode

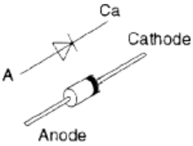
1D3E
RL1N4003N02


Ca
Cathode
A
Anode

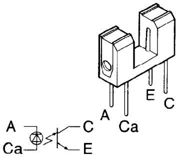
MA165TA
MA723TA
RVD1SS133TA

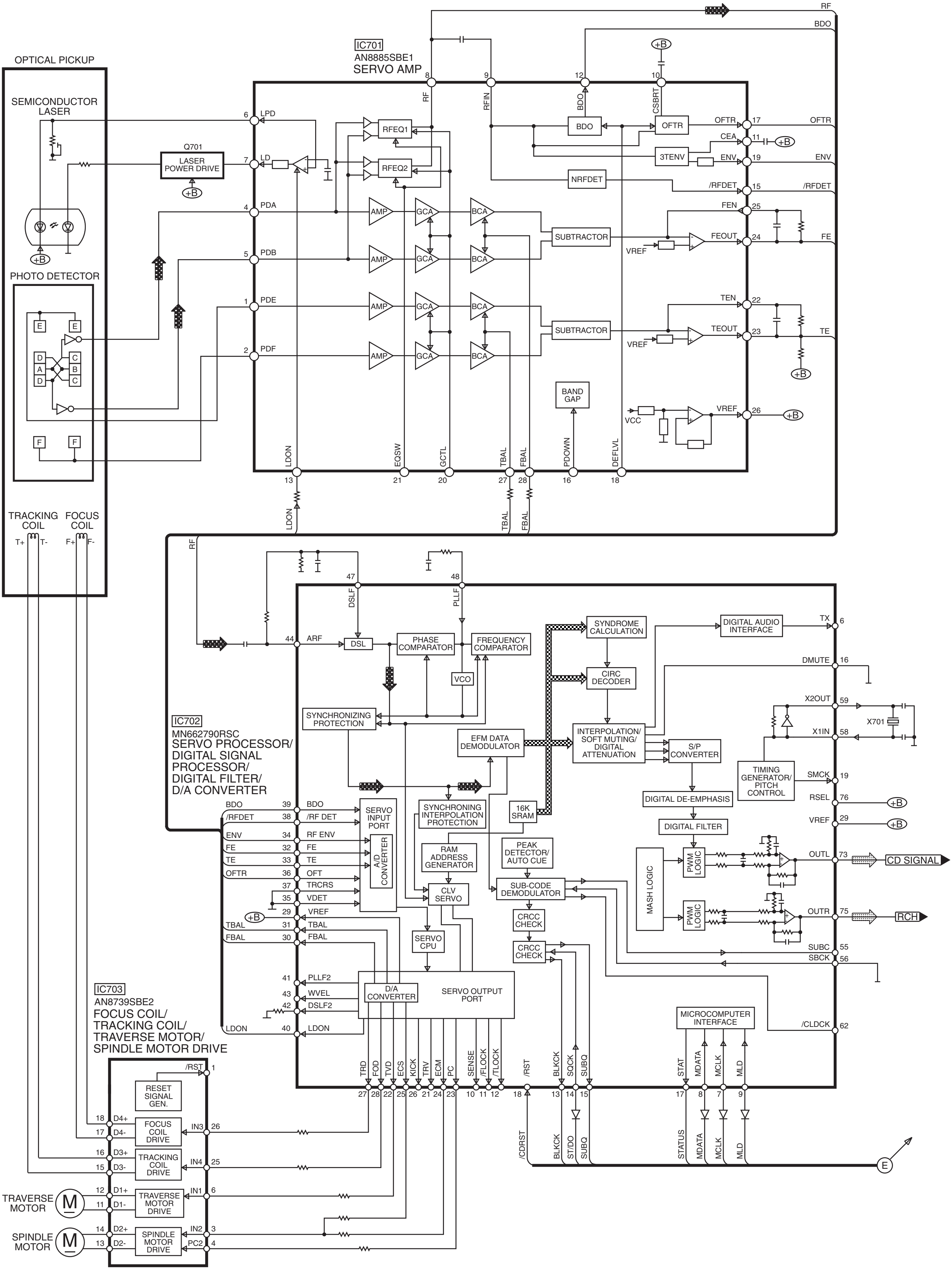

Ca
Cathode
A
Anode

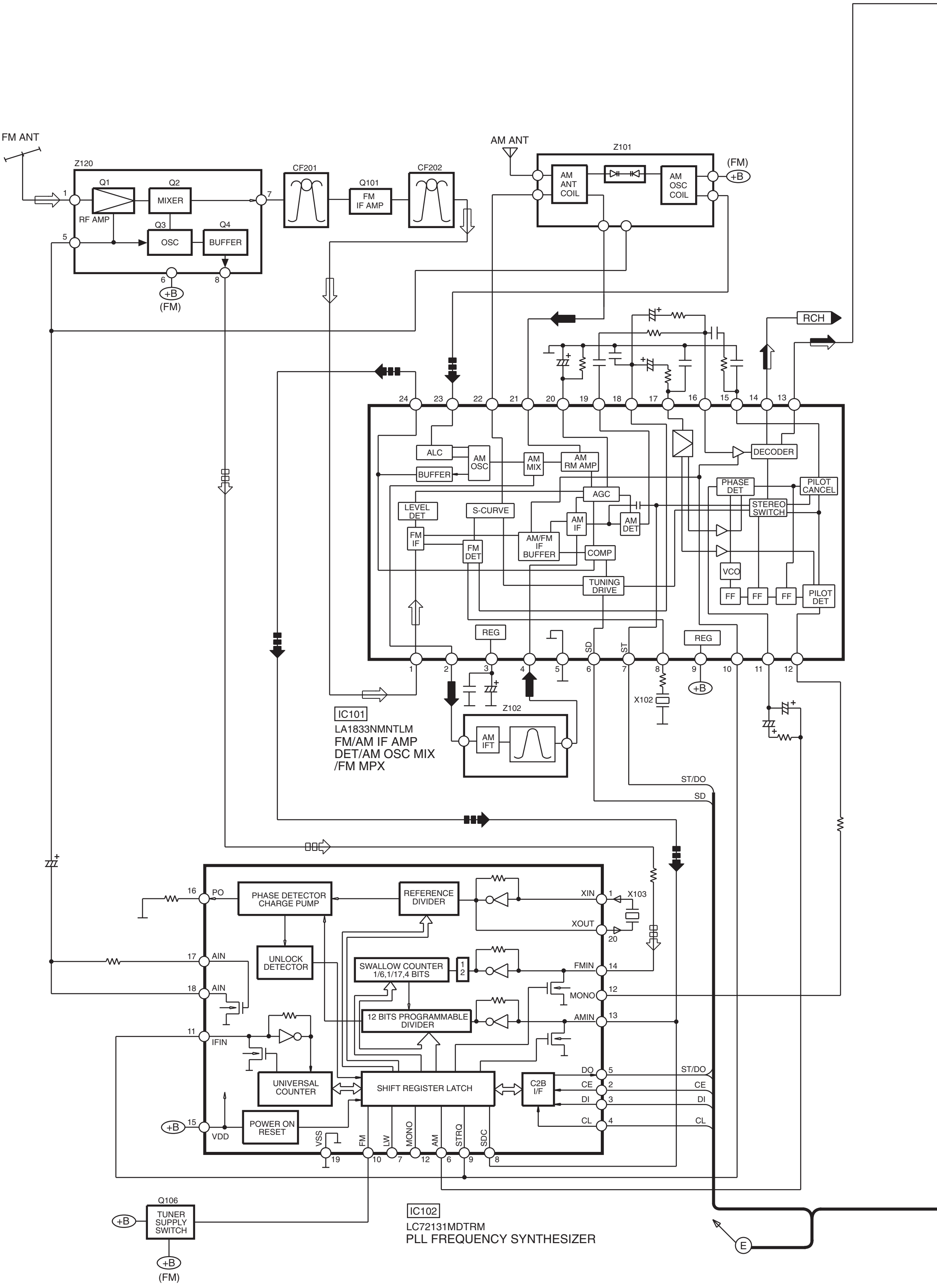
1N5402BM21

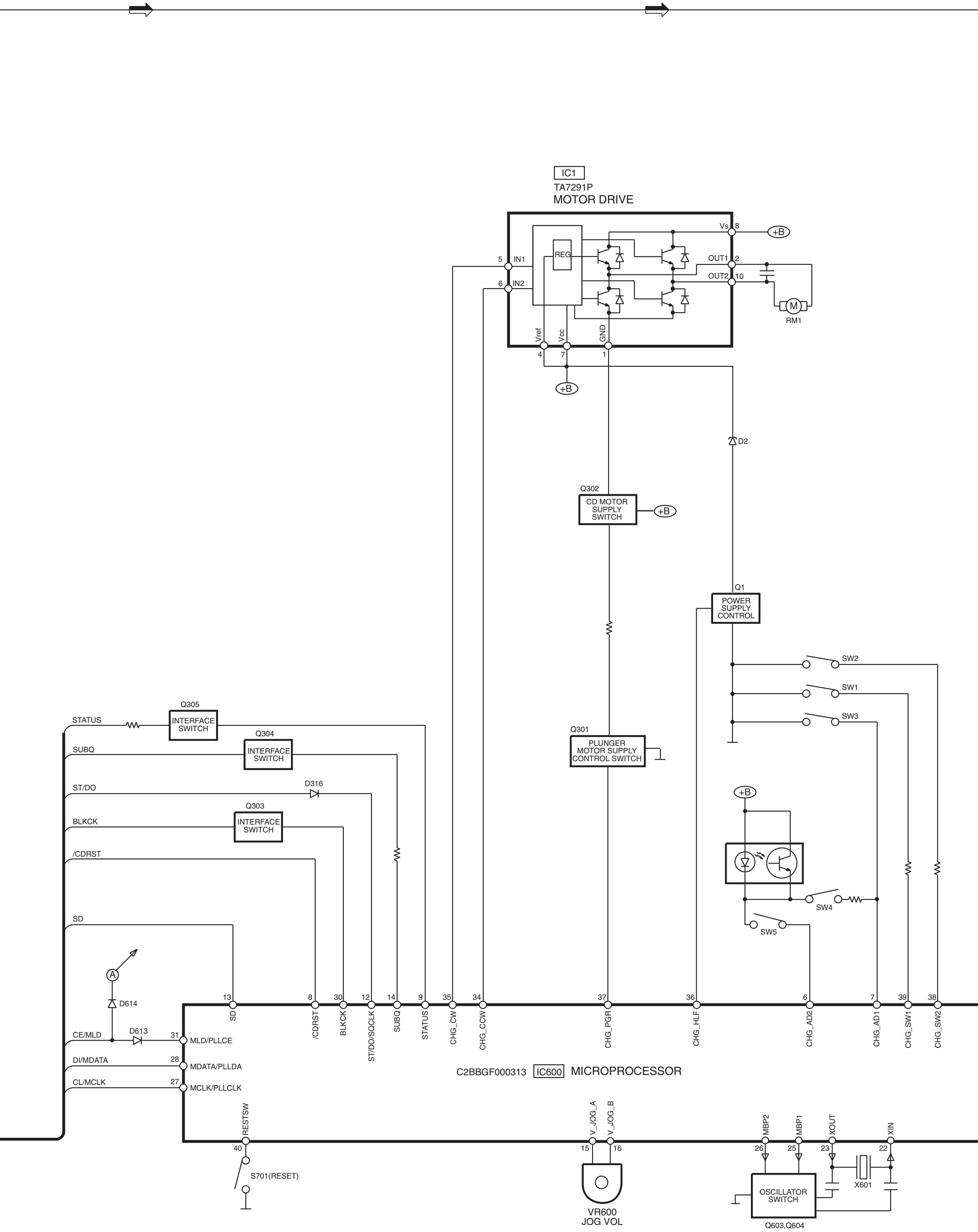

Ca
Cathode
A
Anode

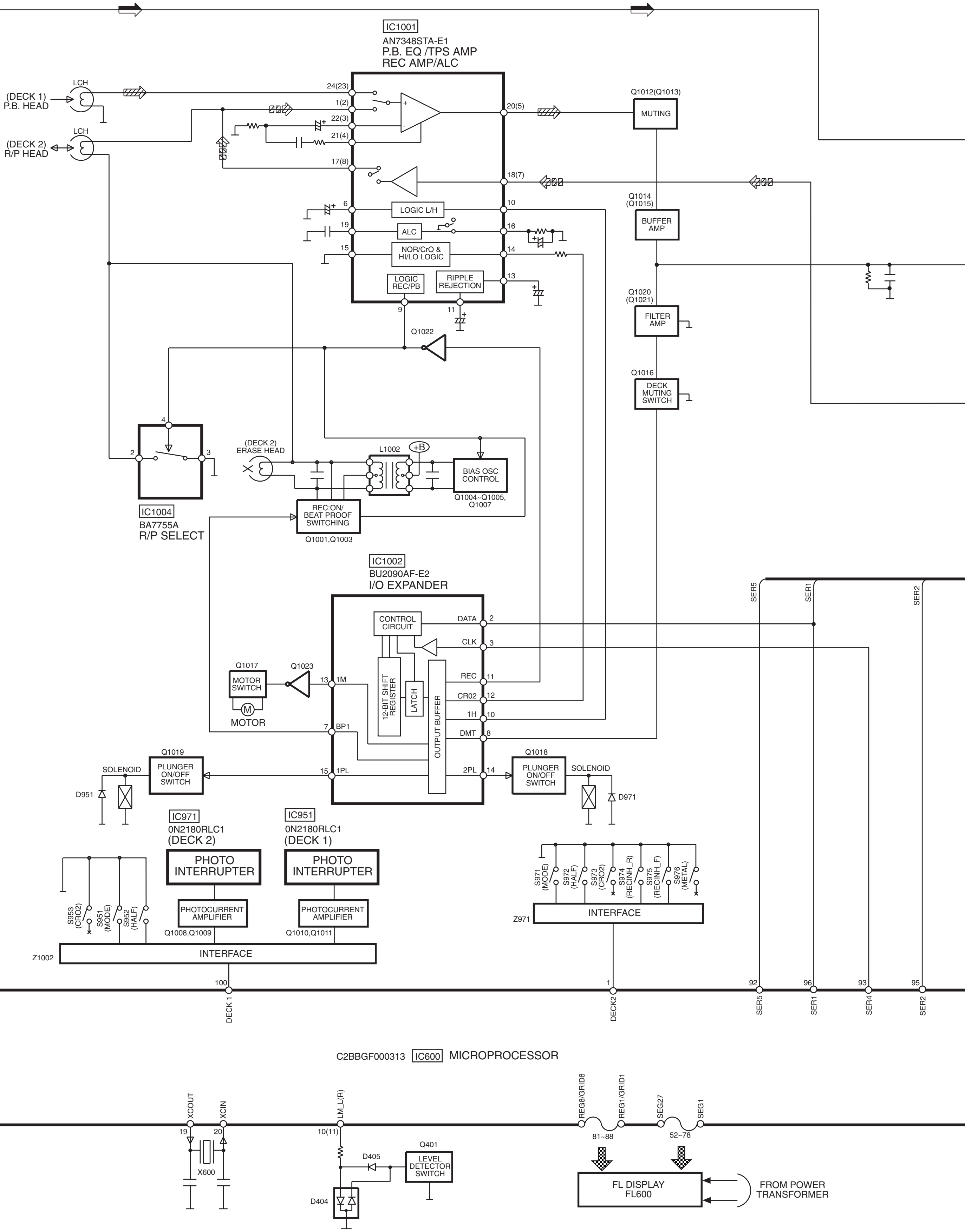
GP1S94

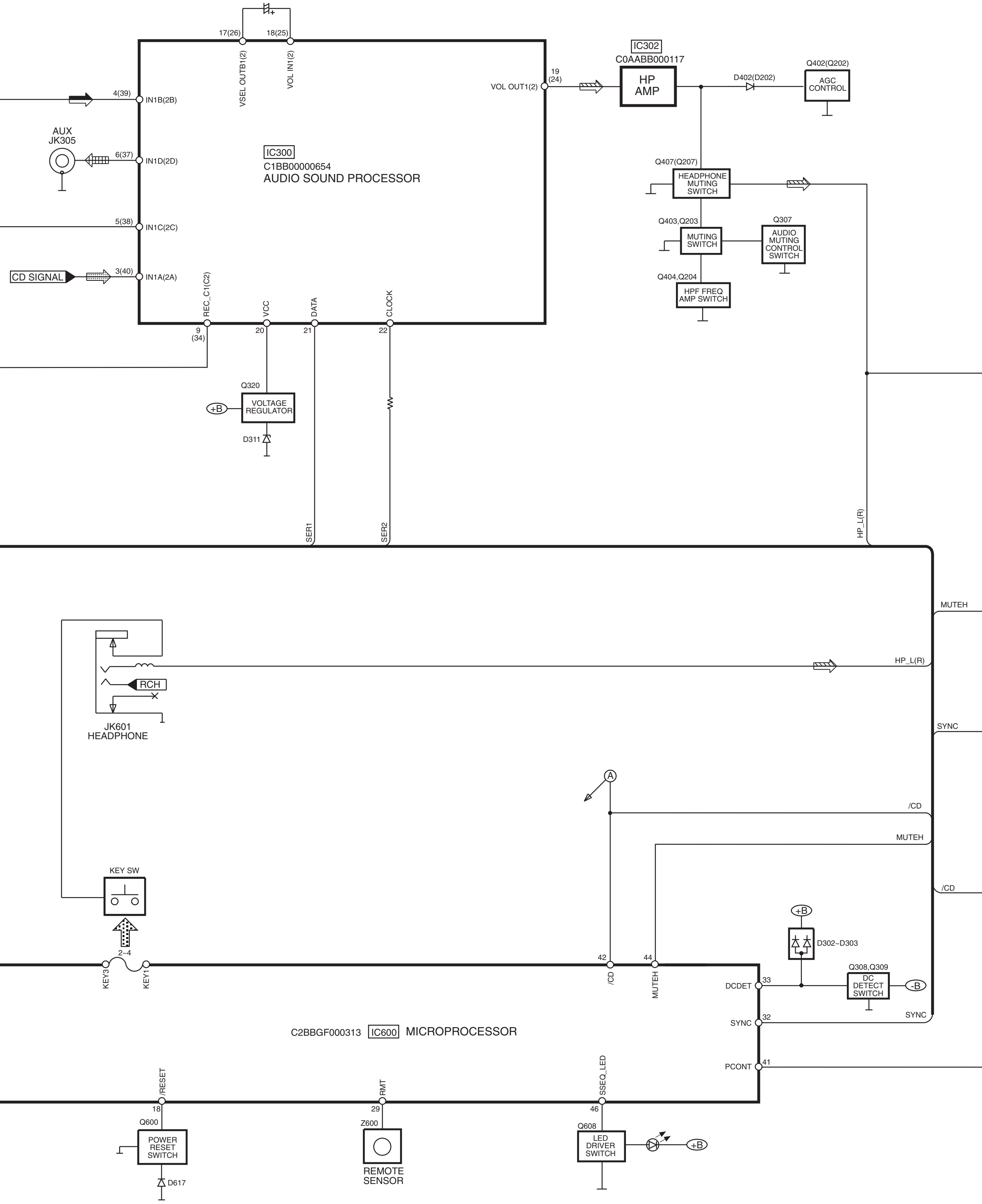

E
C
A
Ca
A
C
Ca
E


OPTICAL PICKUP
SEMICONDUCTOR LASER
PHOTO DETECTOR
TRACKING COIL
FOCUS COIL
T+ T- F+ F-
Q701
LASER POWER DRIVE
+B
IC701
AN8885SBE1
SERVO AMP
LPD
LD
PDA
PDB
PDE
PDF
RF
RFIN
BDO
CSBRT
RFEQ1
RFEQ2
AMP
GCA
BCA
SUBTRACTOR
OFTR
CEA
3TENV
ENV
NRFDET
/RFDET
FEN
FEOUT
FE
VREF
TEN
TEOUT
TE
BAND GAP
VCC
LDON
EQSW
GCTL
TBAL
FBAL
PDOWN
DEFLVL
IC702
MN662790RSC
SERVO PROCESSOR/ DIGITAL SIGNAL PROCESSOR/ DIGITAL FILTER/ D/A CONVERTER
ARF
DSLF
PLLF
DSL
PHASE COMPARATOR
FREQUENCY COMPARATOR
VCO
SYNCHRONIZING PROTECTION
SYNDROME CALCULATION
CIRC DECODER
EFM DATA DEMODULATOR
INTERPOLATION/ SOFT MUTING/ DIGITAL ATTENUATION
S/P CONVERTER
DIGITAL AUDIO INTERFACE
TX
DMUTE
X2OUT
X1IN
X701
TIMING GENERATOR/ PITCH CONTROL
SMCK
RSEL
16K SRAM
SYNCHRONING INTERPOLATION PROTECTION
DIGITAL DE-EMPHASIS
DIGITAL FILTER
SERVO INPUT PORT
A/D CONVERTER
RAM ADDRESS GENERATOR
PEAK DETECTOR/ AUTO CUE
CLV SERVO
SUB-CODE DEMODULATOR
CRCC CHECK
SERVO CPU
MASH LOGIC
PWM LOGIC
OUTL
CD SIGNAL
OUTR
RCH
SUBC
SBCK
/CLDCK
MICROCOMPUTER INTERFACE
BDO /RFDET ENV FE TE OFTR
/RF DET
RF ENV
OFT
TRCRS
VDET
PLLF2
WVEL
DSLF2
D/A CONVERTER
SERVO OUTPUT PORT
TRD FOD TVD ECS KICK TRV ECM PC SENSE /FLOCK /TLOCK /RST BLKCK SQCK SUBQ STAT MDATA MCLK MLD
/CDRST
ST/DO
STATUS
E
IC703
AN8739SBE2
FOCUS COIL/ TRACKING COIL/ TRAVERSE MOTOR/ SPINDLE MOTOR DRIVE
RESET SIGNAL GEN.
FOCUS COIL DRIVE
TRACKING COIL DRIVE
TRAVERSE MOTOR DRIVE
SPINDLE MOTOR DRIVE
D4+ D4- D3+ D3- D1+ D1- D2+ D2-
IN3 IN4 IN1 IN2 PC2
TRAVERSE MOTOR
SPINDLE MOTOR
M


FM ANT
Z120
Q1
Q2
MIXER
RF AMP
Q3
Q4
OSC
BUFFER
1
5
7
6
8
+B
(FM)
CF201
Q101
FM
IF AMP
CF202
AM ANT
Z101
AM
ANT
COIL
AM
OSC
COIL
(FM)
+B
RCH
24
23
22
21
20
19
18
17
16
15
14
13
ALC
AM
OSC
BUFFER
AM
MIX
AM
RM AMP
DECODER
AGC
PHASE
DET
PILOT
CANCEL
LEVEL
DET
S-CURVE
AM
IF
AM
DET
STEREO
SWITCH
FM
IF
FM
DET
AM/FM
IF
BUFFER
COMP
VCO
TUNING
DRIVE
FF
FF
FF
PILOT
DET
REG
REG
SD
ST
1
2
3
4
5
6
7
8
9
10
11
12
+B
X102
Z102
AM
IFT
IC101
LA1833NMNTLM
FM/AM IF AMP
DET/AM OSC MIX
/FM MPX
ST/DO
SD
16
PO
PHASE DETECTOR
CHARGE PUMP
REFERENCE
DIVIDER
XIN
1
X103
XOUT
20
17
AIN
UNLOCK
DETECTOR
SWALLOW COUNTER
1/6,1/17,4 BITS
1
2
FMIN
14
18
AIN
MONO
12
12 BITS PROGRAMMABLE
DIVIDER
AMIN
13
11
IFIN
UNIVERSAL
COUNTER
SHIFT REGISTER LATCH
C2B
I/F
DO
5
ST/DO
CE
2
CE
DI
3
DI
CL
4
CL
+B
15
VDD
POWER ON
RESET
VSS
FM
LW
MONO
AM
STRQ
SDC
19
10
7
12
6
9
8
Q106
+B
TUNER
SUPPLY
SWITCH
+B
(FM)
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
E


IC1
TA7291P
MOTOR DRIVE
REG
5 IN1
6 IN2
Vs 8
OUT1 2
OUT2 10
Vref
Vcc
GND
4
7
1
+B
+B
RM1
M
D2
Q302
CD MOTOR SUPPLY SWITCH
+B
Q1
POWER SUPPLY CONTROL
SW2
SW1
SW3
Q301
PLUNGER MOTOR SUPPLY CONTROL SWITCH
+B
SW4
SW5
Q305
INTERFACE SWITCH
Q304
INTERFACE SWITCH
D316
Q303
INTERFACE SWITCH
STATUS
SUBQ
ST/DO
BLKCK
/CDRST
SD
A
D614
CE/MLD
D613
DI/MDATA
CL/MCLK
13 SD
8 /CDRST
30 BLKCK
12 ST/DO/SQCLK
14 SUBQ
9 STATUS
35 CHG_CW
34 CHG_CCW
37 CHG_PGR
36 CHG_HLF
6 CHG_AD2
7 CHG_AD1
39 CHG_SW1
38 CHG_SW2
31 MLD/PLLCE
28 MDATA/PLLDA
27 MCLK/PLLCLK
C2BBGF000313 IC600 MICROPROCESSOR
40 RESTSW
S701(RESET)
15 V_JOG_A
16 V_JOG_B
VR600
JOG VOL
26 MBP2
25 MBP1
23 XOUT
22 XIN
X601
OSCILLATOR SWITCH
Q603,Q604

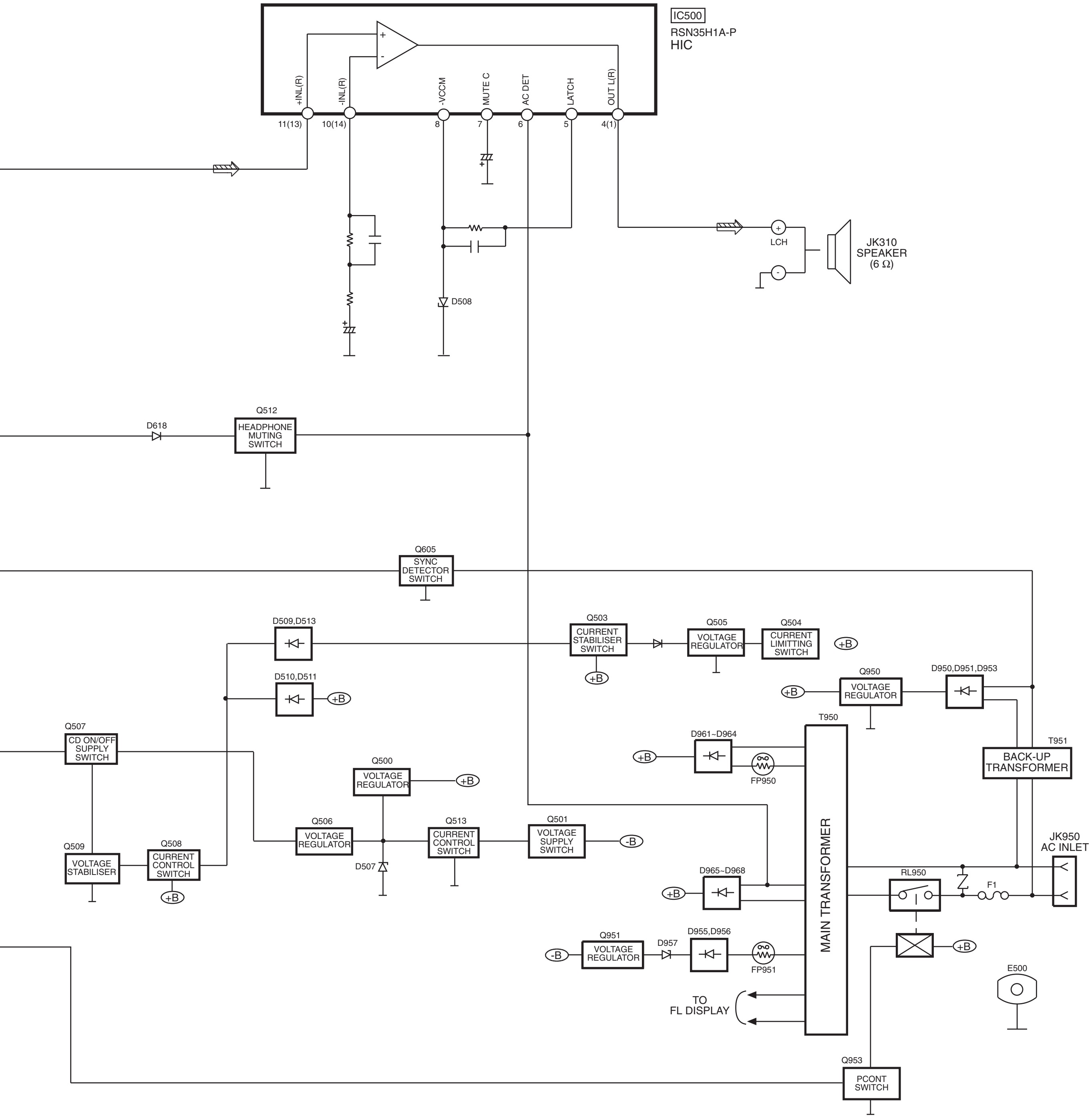

IC1001
AN7348STA-E1
P.B. EQ /TPS AMP
REC AMP/ALC
LCH
(DECK 1)
P.B. HEAD
LCH
(DECK 2)
R/P HEAD
24(23)
1(2)
22(3)
21(4)
17(8)
20(5)
18(7)
6
19
15
10
16
14
13
9
11
LOGIC L/H
ALC
NOR/CrO &
HI/LO LOGIC
LOGIC
REC/PB
RIPPLE
REJECTION
Q1012(Q1013)
MUTING
Q1014
(Q1015)
BUFFER
AMP
Q1020
(Q1021)
FILTER
AMP
Q1016
DECK
MUTING
SWITCH
Q1022
4
2
3
IC1004
BA7755A
R/P SELECT
(DECK 2)
ERASE HEAD
L1002
+B
BIAS OSC
CONTROL
Q1004~Q1005,
Q1007
REC:ON/
BEAT PROOF
SWITCHING
Q1001,Q1003
IC1002
BU2090AF-E2
I/O EXPANDER
CONTROL
CIRCUIT
DATA
2
CLK
3
REC
11
CR02
12
1H
10
DMT
8
2PL
14
12-BIT SHIFT
REGISTER
LATCH
OUTPUT BUFFER
13
1M
7
BP1
15
1PL
Q1017
MOTOR
SWITCH
M
MOTOR
Q1023
Q1019
PLUNGER
ON/OFF
SWITCH
SOLENOID
D951
Q1018
PLUNGER
ON/OFF
SWITCH
SOLENOID
D971
SER5
SER1
SER2
IC971
0N2180RLC1
(DECK 2)
PHOTO
INTERRUPTER
PHOTOCURRENT
AMPLIFIER
Q1008,Q1009
IC951
0N2180RLC1
(DECK 1)
PHOTO
INTERRUPTER
PHOTOCURRENT
AMPLIFIER
Q1010,Q1011
S953
(CRO2)
S951
(MODE)
S952
(HALF)
Z1002
INTERFACE
S971
(MODE)
S972
(HALF)
S973
(CRO2)
S974
(RECINH_R)
S975
(RECINH_F)
S976
(METAL)
Z971
INTERFACE
100
DECK 1
1
DECK2
92
SER5
96
SER1
93
SER4
95
SER2
C2BBGF000313
IC600
MICROPROCESSOR
XCOUT
19
XCIN
20
X600
LM_L(R)
10(11)
D405
Q401
LEVEL
DETECTOR
SWITCH
D404
REG8/GRID8
REG1/GRID1
SEG27
SEG1
81~88
52~78
FL DISPLAY
FL600
FROM POWER
TRANSFORMER


17(26)
18(25)
VSEL OUTB1(2)
VOL IN1(2)
4(39)
IN1B(2B)
AUX
JK305
6(37)
IN1D(2D)
IC300
C1BB00000654
AUDIO SOUND PROCESSOR
5(38)
IN1C(2C)
CD SIGNAL
3(40)
IN1A(2A)
REC_C1(C2)
VCC
DATA
CLOCK
9
(34)
20
21
22
VOL OUT1(2)
19
(24)
IC302
C0AABB000117
HP
AMP
D402(D202)
Q402(Q202)
AGC
CONTROL
Q407(Q207)
HEADPHONE
MUTING
SWITCH
Q403,Q203
MUTING
SWITCH
Q307
AUDIO
MUTING
CONTROL
SWITCH
Q404,Q204
HPF FREQ
AMP SWITCH
Q320
+B
VOLTAGE
REGULATOR
D311
SER1
SER2
HP_L(R)
MUTEH
HP_L(R)
RCH
JK601
HEADPHONE
SYNC
A
/CD
MUTEH
/CD
KEY SW
2~4
KEY3
KEY1
42
/CD
44
MUTEH
+B
D302~D303
Q308,Q309
DC
DETECT
SWITCH
-B
DCDET
33
SYNC
32
SYNC
C2BBGF000313
IC600
MICROPROCESSOR
PCONT
41
/RESET
18
RMT
29
SSEQ_LED
46
Q600
POWER
RESET
SWITCH
D617
Z600
REMOTE
SENSOR
Q608
LED
DRIVER
SWITCH
+B

SIGNAL LINES

MAIN SIGNAL LINE	CD SIGNAL LINE	AM SIGNAL LINE	PLAYBACK SIGNAL LINE
FM OSC SIGNAL LINE	AM OSC SIGNAL LINE	FM & AM SIGNALS LINE	RECORDING SIGNAL LINE
FM SIGNAL LINE	CD-DA (AUDIO/VIDEO) SIGNAL LINE		AUX SIGNAL LINE

( ) INDICATES THE PIN NO. OF THE RIGHT CHANNEL

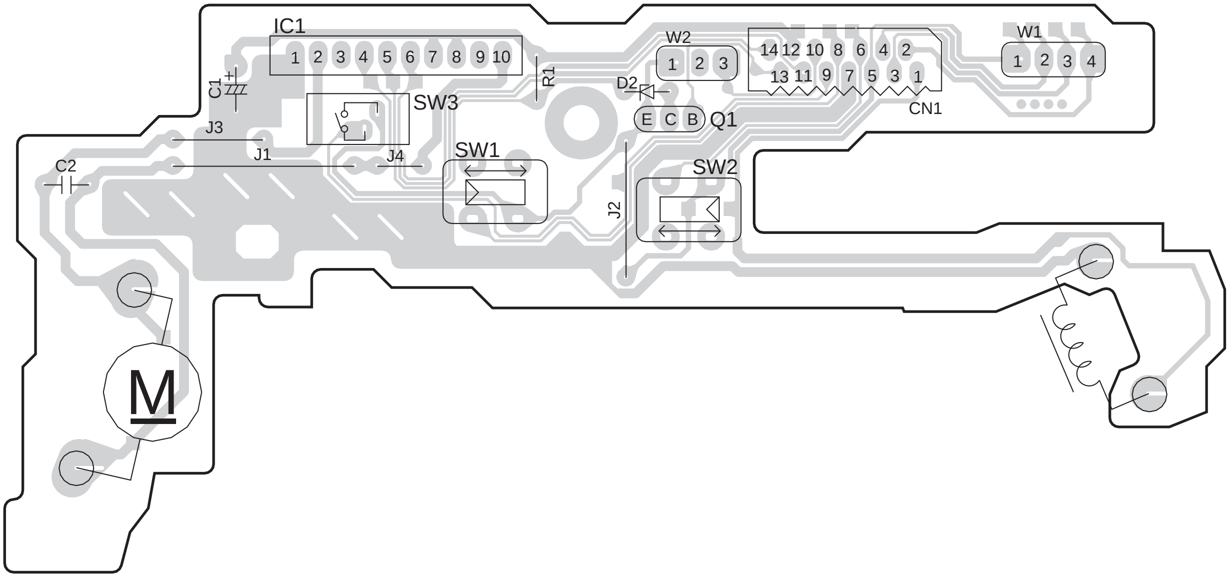


IC500
RSN35H1A-P
HIC
+INL(R)
-INL(R)
-VCCM
MUTE C
AC DET
LATCH
OUT L(R)
11(13)
10(14)
8
7
6
5
4(1)
D508
LCH
JK310
SPEAKER
(6 Ω)
D618
Q512
HEADPHONE MUTING SWITCH
Q605
SYNC DETECTOR SWITCH
D509,D513
D510,D511
+B
Q503
CURRENT STABILISER SWITCH
Q505
VOLTAGE REGULATOR
Q504
CURRENT LIMITTING SWITCH
Q950
VOLTAGE REGULATOR
D950,D951,D953
T950
D961~D964
FP950
T951
BACK-UP TRANSFORMER
Q507
CD ON/OFF SUPPLY SWITCH
Q500
VOLTAGE REGULATOR
Q506
VOLTAGE REGULATOR
Q513
CURRENT CONTROL SWITCH
Q501
VOLTAGE SUPPLY SWITCH
-B
Q509
VOLTAGE STABILISER
Q508
CURRENT CONTROL SWITCH
D507
MAIN TRANSFORMER
JK950
AC INLET
D965~D968
RL950
F1
Q951
VOLTAGE REGULATOR
D957
D955,D956
FP951
E500
TO FL DISPLAY
Q953
PCONT SWITCH

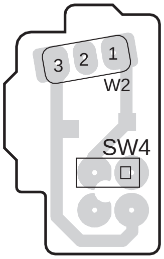
A B C D E F G

1 2 3 4 5 6 7 8 9

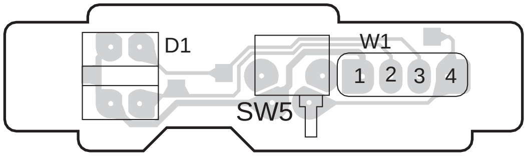
K CD LOADING P.C.B (REP2578A-N)


IC1
1 2 3 4 5 6 7 8 9 10
C1
SW3
R1
D2
W2
1 2 3
14 12 10 8 6 4 2
13 11 9 7 5 3 1
CN1
W1
1 2 3 4
E C B Q1
J3
J1
J4
SW1
C2
J2
SW2
M

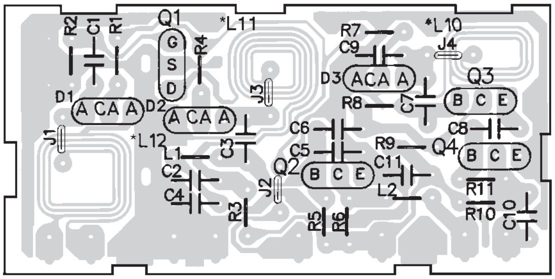
L CD DETECT P.C.B (REP2578A-N)



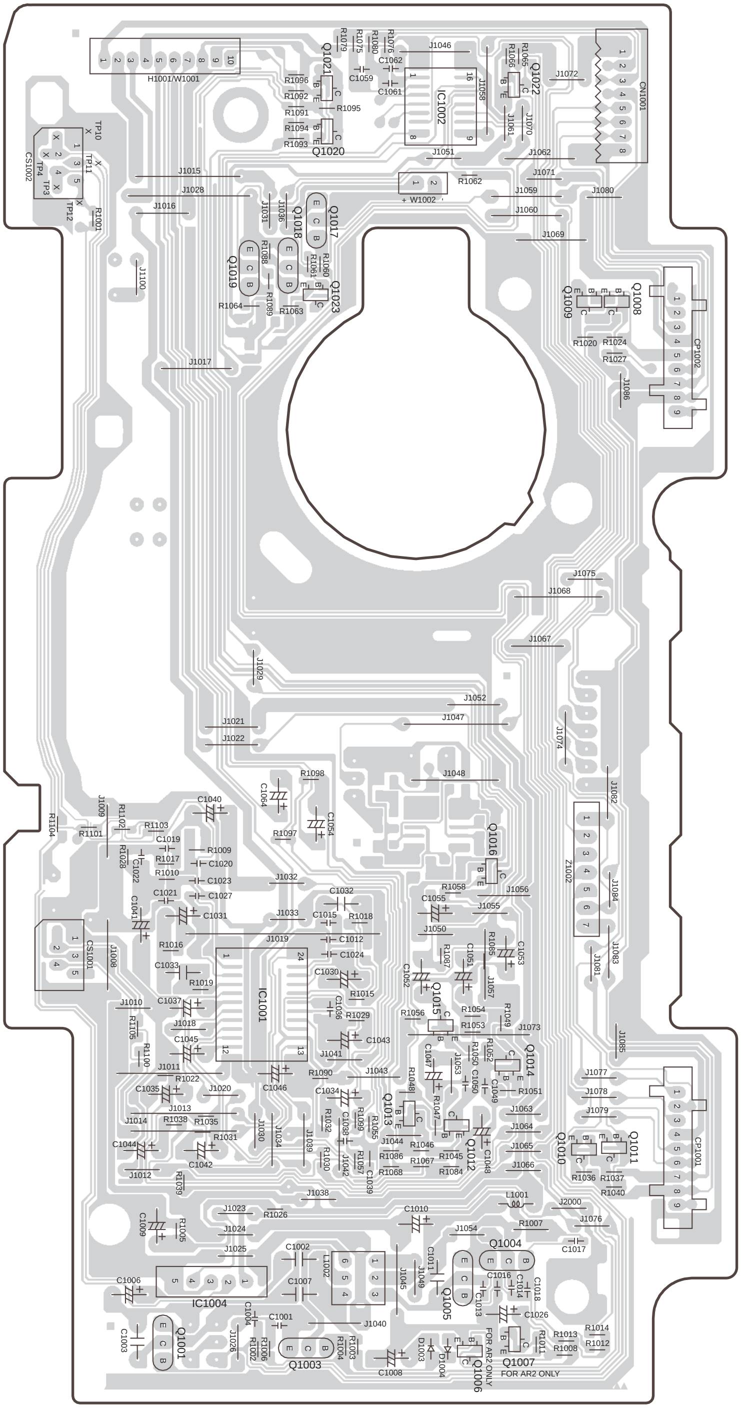
M SPINDLE POSITION P.C.B (REP2578A-N)


D1
W1
1 2 3 4
SW5

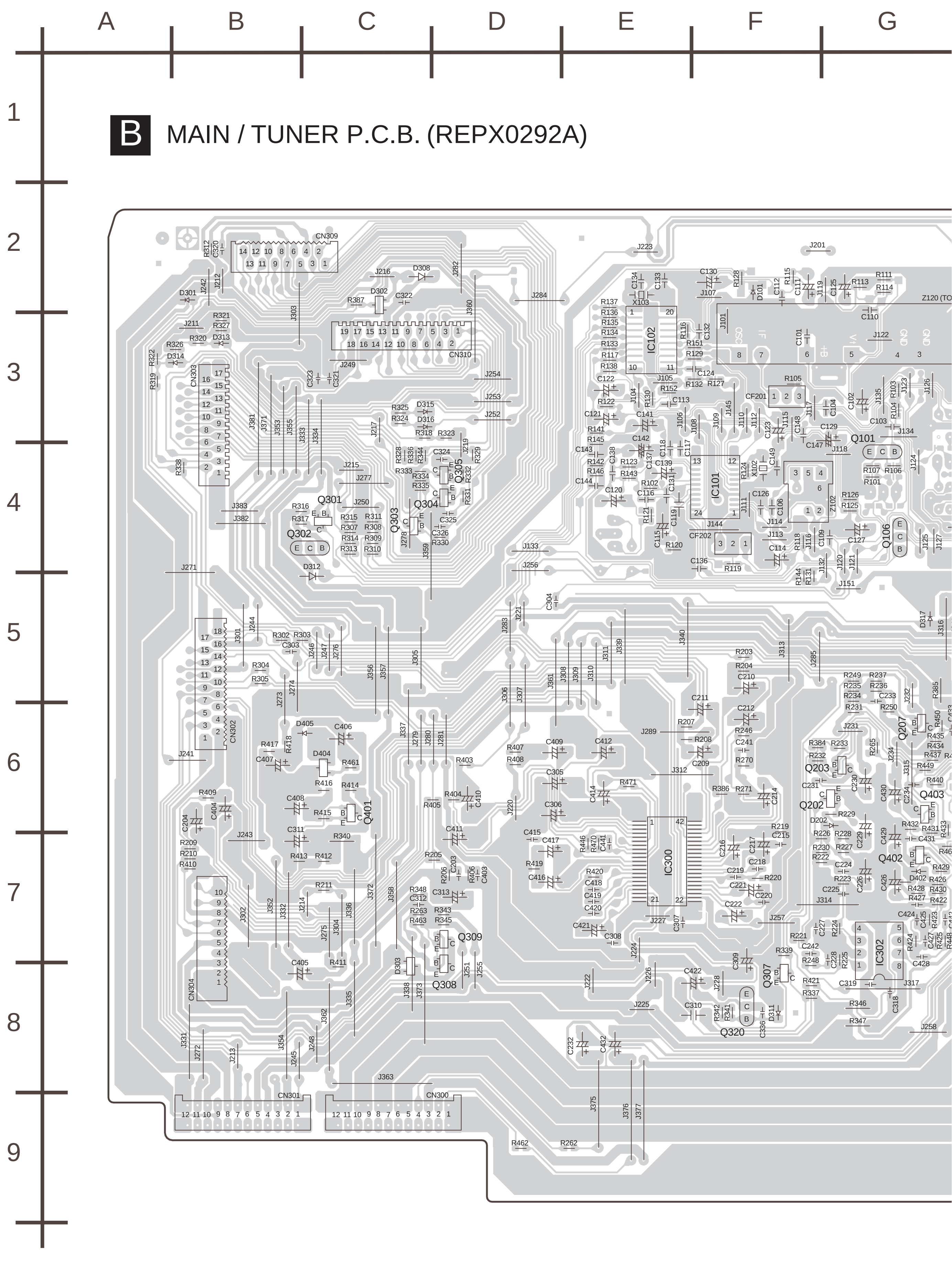
N TUNER PACK P.C.B (REP1999B)


R2
C1
R1
Q1
*L11
G
S
D
R4
R7
C9
*L10
J4
D3
ACA A
Q3
J3
R8
C7
B C E
D1
A CA A
D2
A CA A
C6
C8
J1
*L12
L1
C3
C5
R9
Q4
B C E
C2
Q2
B C E
C11
L2
R11
C4
J2
R3
R5
R6
R10
C10

E DECK P.C.B. (REPX0282A...PC)
(REPX0282E...P)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
H1001/W1001
CS1002
TP10
TP11
TP4
TP3
TP12
R1001
Q1021
Q1020
R1096
R1092
R1091
R1094
R1093
R1095
R1079
R1075
R1080
R1076
C1062
C1059
C1061
J1046
IC1002
J1058
Q1022
R1065
R1066
J1061
J1070
J1072
CN1001
J1051
J1062
J1071
J1015
J1028
J1016
W1002
R1062
J1059
J1080
J1060
J1069
J1031
J1036
Q1018
Q1017
Q1019
R1088
R1061
R1060
Q1023
R1064
R1089
R1063
J1100
Q1009
Q1008
R1020
R1024
R1027
CP1002
J1086
J1017
J1075
J1068
J1067
J1029
J1052
J1047
J1021
J1022
J1074
R1098
C1064
J1048
J1082
C1054
R1097
Q1016
Z1002
C1040
R1104
R1101
J1009
R1102
R1103
C1019
R1009
R1017
C1020
R1028
C1022
R1010
C1023
C1021
C1027
J1032
C1032
R1058
J1056
C1041
C1031
J1033
C1015
R1018
C1055
J1055
J1084
CS1001
J1008
R1016
J1019
C1012
J1050
C1024
R1087
C1051
R1085
C1053
J1083
C1033
IC1001
C1030
C1052
J1081
R1019
R1015
J1057
C1036
Q1015
R1054
R1049
J1010
C1037
R1029
R1056
R1053
J1073
R1105
J1018
C1043
R1052
J1085
C1045
R1100
J1041
C1047
R1050
C1050
Q1014
J1011
J1053
J1077
R1022
R1090
J1043
R1048
C1049
C1035
J1020
C1046
C1034
R1051
J1078
Q1013
J1013
R1047
J1063
J1079
J1014
R1038
R1035
R1032
R1099
R1055
J1064
R1031
J1030
J1034
J1039
C1038
J1044
R1046
Q1012
C1048
J1065
Q1010
Q1011
C1044
C1042
R1030
J1042
R1057
R1086
R1067
R1045
J1066
CP1001
J1012
R1039
R1068
C1039
R1084
R1036
R1037
R1040
J1038
L1001
J2000
J1023
R1026
C1010
C1009
R1005
J1024
J1054
R1007
J1076
Q1004
C1017
J1025
C1002
L1002
J1045
C1011
J1049
C1016
C1014
C1018
C1006
IC1004
C1007
Q1005
C1013
C1026
C1004
C1001
J1040
R1014
C1003
Q1001
J1026
R1006
R1002
Q1003
R1003
R1004
D1003
D1004
R1011
R1013
R1012
R1008
C1008
Q1006
FOR AR2 ONLY
Q1007
FOR AR2 ONLY

B MAIN / TUNER P.C.B. (REPX0292A)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
CN309
CN310
CN303
CN302
CN304
CN301
CN300
IC102
IC101
IC300
IC302
X103
X102
CF201
CF202
Z120 (TO
Z102
Q101
Q106
Q203
Q202
Q207
Q402
Q403
Q301
Q302
Q303
Q304
Q305
Q307
Q308
Q309
Q320
Q401
D301
D302
D303
D308
D311
D312
D313
D314
D315
D316
D317
D402
D404
D405
D101
D202
OSC
IF
+B
V1
GND
J271
J241
J243
J363
J284
J223
J201